	STATE OF UTAH  DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING  1. WELL NAME and NUMBER												
		APPL	ICATION FOR PE	RMIT TO DRILL					1. WELL NAME and NUMBER Ute Tribal 36-06				
2. TYPE OF	<b>WORK</b>		3. FIELD OR WILDCAT										
4. TYPE OF			5. UNIT o		UNDAGE CANY		AME						
6. NAME OF	OPERATOR	Oil W		Methane Well: NO					7. OPERA	TOR PHONE			
8. ADDRESS	OF OPERATOR		PETROGLYPH OPER	RATING CO					9. OPERA	ATOR E-MAIL	208 685-768	5	
10 MINERA	L LEASE NUMBER		adway Avenue, Ste 5	00, Boise, ID, 837							oowell@pgei.co	om	
	INDIAN, OR STATE				NDIAN (	) STATE (	) FEE(		FEDER.	- T	450	ATE 🔵	FEE
13. NAME C	F SURFACE OWN	IER (if box 12 = 'f	ee')						14. SURF	ACE OWNER	PHONE (if box	( 12 = 'fee'	)
15. ADDRES	SS OF SURFACE O	OWNER (if box 12	= 'fee')						16. SURF	ACE OWNER	E-MAIL (if bo	x 12 = 'fee	')
17. INDIAN (if box 12 =	,	IBE NAME dian Tribe		I. INTEND TO COM ULTIPLE FORMAT YES (Submi	IONS	PRODUCTION gling Applicati		_	19. SLAN		ECTIONAL 📵	HORIZO	ONTAL 🔵
20. LOCAT	ION OF WELL		FOOT	AGES	Q	TR-QTR	SEC	TION	то	WNSHIP	RANGE		MERIDIAN
LOCATION	AT SURFACE		1794 FNL	1341 FWL	$\top$	SENW	3	6	1	5.0 S	4.0 W		U
Top of Up	permost Producin	ıg Zone	1980 FNL	1980 FWL		SENW	3	6		5.0 S	4.0 W		U
At Total D	epth		1980 FNL	1980 FWL		SENW	3	6	5.0 S 4.0 W			U	
21. COUNT		CHESNE	22	. DISTANCE TO N		EASE LINE (F 341	eet)		23. NUMBER OF ACRES IN DRILLING UNIT 64				
				. DISTANCE TO N pplied For Drillin	g or Com		POOL		26. PROP	OSED DEPTH MD:	6181 TVD:	6112	
27. ELEVAT	ION - GROUND LE	EVEL	28	BOND NUMBER					29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE				
	6	6799				138336					43-8342		
						Cement Info							
String	Hole Size	Casing Size	0 - 53	Weight 5.0		e & Thread Inknown	N	10.0		Class G	Sacks 25	Yield 1.17	Weight 15.8
Surf	12.25	8.625	0 - 493	24.0		-55 ST&C	_	10.0		Class G	226	1.17	15.8
Prod	7.875	5.5	0 - 6181	15.5		-55 LT&C	_	10.0		Class G	467	1.92	12.5
										Class G	340	1.46	13.4
		<u>'</u>	'		ATTACI	HMENTS	<u>'</u>						
	VERIFY	THE FOLLOWI	NG ARE ATTACHI	ED IN ACCORD	ANCE WI	ITH THE UT	AH OIL AI	ND GAS	CONSE	RVATION GE	NERAL RUL	.ES	
<b>WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER COMPLETE DRI</b>													
AFFI	DAVIT OF STATUS	/ 5. IF OPE	RATOR IS	OTHER	THAN THE LEA	ASE OWNER							
DIRE	CTIONAL SURVE	Y PLAN (IF DIREC	TIONALLY OR HORI	ZONTALLY DRILL	ED)	<b>№</b> торо	GRAPHIC	AL MAP					
NAME Ed 1	Frotter			TITLE Agen	t			PHONE	E 435 789	9-4120			
SIGNATUR	E			DATE 04/1	5/2014			EMAIL	edtrotter(	@easilink.com			
API NUMBER ASSIGNED APPROVAL APPROVAL													
										Permit Manager			

# **CONFIDENTIAL**

# NINE POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 36-06 SE NW, SEC 36, T5S, R4W DUCHESNE COUNTY, UTAH

#### 1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation		Subsea	TVD	MD
Rig KB=~13' above GGL		6812	0	0
Surface Formation = <b>Uinta</b>				
Uinta		6799	13	13
Green River		5360	1452	1457
Trona		4130	2682	2723
Mahogany Shale		3963	2849	2896
"B" Marker	_ =	2904	3908	3976
"X" Marker	00 2	2436	4376	4445
Douglas Creek Marker	inte	2299	4513	4582
"B" Limestone	Waterflood Unit Interval	1923	4889	4958
Base Castle Peak Limestone	> 5	1378	5434	5503
BSCARB		947	5865	5937
Wasatch		684	NDE	NDE
Formation at TD: Green River	Rig TD	700	6112	6181

# 2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:

Substance	Formation	Subsea	TVD	MD
Base of moderately saline ground	Uinta	6000	812	812
water*				
Oil/Gas	Douglas Creek	2299	4513	4582
Oil/Gas	Castle Peak	1378	5434	5503

Any water encountered during drilling shall be sampled, analyzed and reported to BLM, Vernal office using State of Utah DOGM Form 7 *Report of Water Encountered during Drilling*. The following analyses shall be performed on any water encountered:

Flow rate (or blowtest) Temperature pH TDS

Dissolved Iron Dissolved Magnesium Dissolved Bicarb. Dissolved Sulfate
Dissolved Calcium Dissolved Sodium Dissolved Carbonate Dissolved Chloride

All depths through the "Base of moderately saline ground water", along with any water encountered below that depth which is less than 10,000 TDS, shall be protected by the surface casing or by lifting the cement of the production casing into the surface casing.

<sup>\*</sup>Base of Moderately Saline Groundwater from Howells, Longson and Hunt, 1981, Utah State Technical Publication 92: The Base of the Moderately Saline Water in the Uinta Basin, Utah



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#### 3. PROPOSED CASING PROGRAM:

String	Hole	Casing	Top - MD	Bottom - MD	Weight lb/ft	Grade	Thread
Conductor	20"	14"	surface	53'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	493'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	6181'	15.5	J-55	LTC

String	Hole	Casing	Collapse	Burst	Tensile
Surface	12-1/4"	8-5/8"	1,370 psi	2,950 psi	244,000 lb
Production	7-7/8"	5-1/2"	4,040 psi	4,810 psi	248,000 lb

- All casing will be new or inspected.
- The surface and production strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.
- The production string shall have a minimum of one (1) centralizer for every three (3) joints from TD to the top of the "B" marker at 3976'MD.

#### 4. PROPOSED CEMENTING PROGRAM:

String	Top Bottom	Cement Description	Sacks Vol (ft³)	Excess	Weight (ppg)	Yield (ft³/sk)
Conductor	0 53	Construction Grade Cement	Sufficien	it volumes	to grout Co	onductor
Surface	0 493	Class G +2% CaCl2 +0.25 lb/sk Cello Flake	226 264	30%	15.8	1.17
Production Lead	0 3976	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR1/4 (LCM)	467 896	30%	12.5	1.92
		EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR1/4 (LCM)	340 497	30%	13.4	1.46

- The 8-5/8" surface casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.
- The 5-1/2" production casing shall be cemented back to surface. In the event that during the primary cementing operation the cement does not circulate to surface, a remedial cementing operation shall be performed only if necessary to lift cement above the Surface Casing Shoe at 493'MD.



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#### 5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

- An 8", 2000 PSI, Double Ram BOPE with Hydraulic Closing Unit shall be used.
- The flowline shall have a minimum diameter of 10".
- Auxiliary equipment shall be a Kelly Cock, Bit Float, and a TIW valve with drill pipe threads.
- Spark arrestors shall be equipped on all engine exhausts within 100 feet of the wellbore.
- See attached 2,000 psi BOP schematic diagram.

#### **BOPE TESTING PROCEDURE:**

• The BOPE shall be tested by a professional tester to conform to Onshore Order #2.

#### 6. MUD PROGRAM:

#### A. SURFACE HOLE

- The surface hole will be drilled with an air/mist system from 0' to 493'. All cutting shall be directed to pit.
- A trailer-mounted compressor with a capacity of 2000 CFM will be used. Compressor will have a safety shut-off valve located less than 15 feet from the driller's controls of the rig.
- The rat and mouse holes will be drilled with the air rig after surface casing is cemented.
- The 140 barrel water truck used with the deduster will be the source of kill fluid in the highly unlikely event of pressure being encountered during drilling of the surface hole.
- Operator requests the following variances from Onshore Order 2 part E during drilling of the surface hole. Operator will use air drilling techniques only on surface hole:
  - Operator requests a variance to regulations requiring the blooie line discharge to be 100' from the wellbore. Due to reduced location size, the blooie line discharge will be approximately 75' from the wellbore and securely anchored.
  - Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. A mister shall be on the end of the blooie line.
  - Operator requests a variance to regulations requiring compressors be located in the opposite direction from the blooie line; a minimum of 100' from the wellbore. Due to the reduced location size, the compressors shall be located as close as is reasonable to the opposite direction from the blooie line and 75' from the wellbore.
  - Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl shall be utilized on the diverter system in place of a BOPE.



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# NINE POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 36-06 SE NW, SEC 36, T5S, R4W DUCHESNE COUNTY, UTAH

#### **B. PRODUCTION HOLE**

- The production hole shall be drilled with a freshwater polymer system from 493' to 6181'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Diammonium Phosphate (DAP) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 8.3-8.8 lbs/gal. although mud weight up to 10lbs/gal may be used if necessary to prevent wellbore wall instability due to the planned inclination of the well.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 10.5 lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least: a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.
- A mud-gas separator shall be available on location.

#### C. HAZARDOUS MATERIALS AND POLLUTANTS

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior DOGM approval to ensure adequate protection of freshwater aquifers.
- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities shall NOT be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.



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#### 7. EVALUATION PROGRAM:

Logs: Triple Combo TD to base of surface casing (AIT, DSN, CDL)

Base of surface casing to surface (GR only)

Cores: None planned

DST: None planned

Testing: Operator plans no testing until the completion phase of the well.

#### 8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H<sub>2</sub>S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 1545 PSI (0.25 PSI/ft gradient).
- This well is NOT in the vicinity of active injection wells. Nearby active injection can cause pressures up to a 0.433 PSI/ft gradient.

## 9. DIRECTIONAL WELL PLAN:

- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- While cutting the Waterflood Unit Interval from 3976' to 5937', the actual well path may be allowed to vary up to 100' horizontally from plan in order to prevent excessive slide drilling.

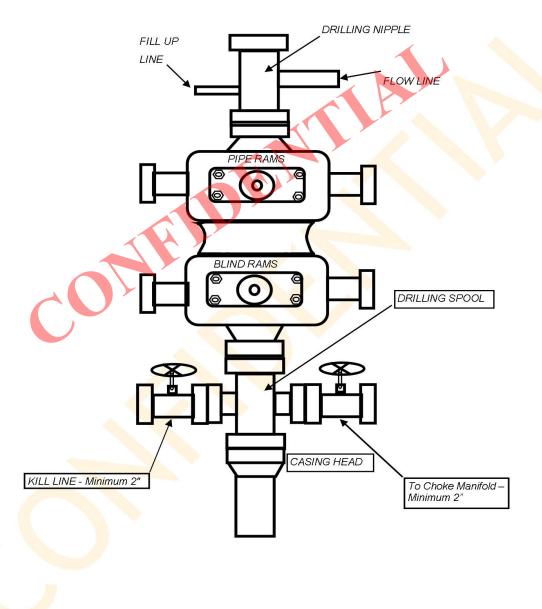
  Above and below the Waterflood Unit Interval, variances in excess 100' horizontally from plan may be allowed.
- Directional drilling plan is attached.



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### TYPICAL 2,000 p.s.i. BLOWOUT PREVENTER

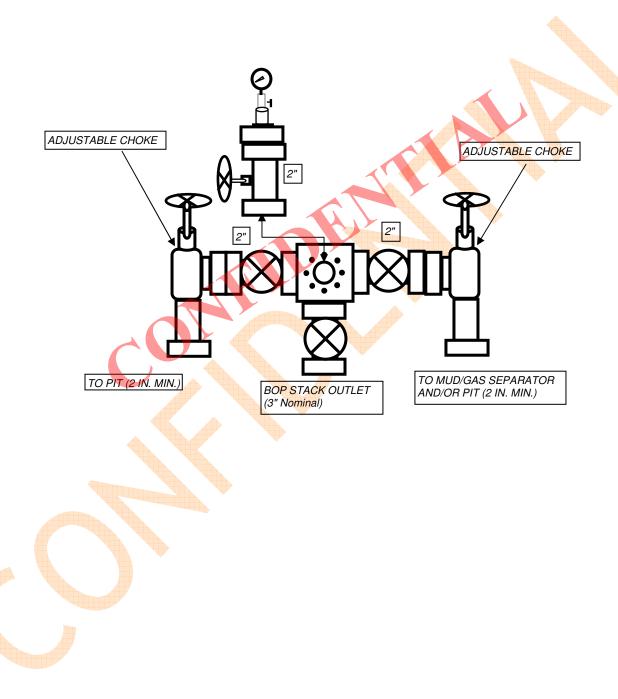


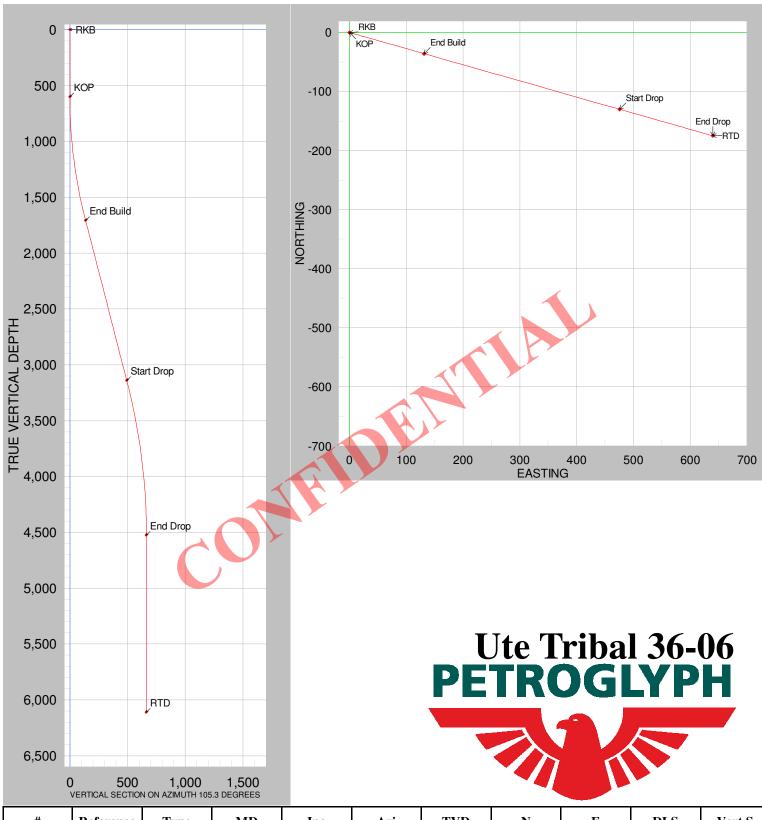


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# TYPICAL 2,000 p.s.i. CHOKE MANIFOLD





#	Reference	Type	MD	Inc	Azi	TVD	N	E	DLS	Vert S
0	RKB	Tie Point	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1	КОР	Vertical	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
2	End Build	Build	1720.00	14.00	105.30	1708.89	-35.93	131.33	1.25	136.15
3	Start Drop	Tangent	3195.00	14.00	105.30	3140.07	-130.09	475.52	0.00	492.99
4	End Drop	Drop	4595.00	0.00	0.00	4526.18	-175.00	639.68	1.00	663.18
5	RTD	Vertical	6181.00	0.00	0.00	6112.18	-175.00	639.68	0.00	663.18

RECEIVED: April 15, 2014

SES - Stoner Engineering Software

					26-06 I				
				11.15	36-06, I	riaii i		42 TI	06 2011 5
Operator Field					feet, %100ft Duchesne			:42 Thursday, March tical Section Azimuth	06, 2014 Page 1 of 4
Well Name	36-06			State				y Calculation Method	
Plan	1			Country				Database	
Locatio		1794' FNL 8	% 1341' FWL	BHL: 1980'	FNL & 1980'	MapZon	e	Lat Long	ı Ref
Sit	FWL e					Surface	x	Surface I	-ona
Slot Nam			UWI			Surface\		Surface	•
Well Numbe	er		API			Z Datun	n		
Projec	et					Surface 2	Z	Ground L	.evel
DIRECTIONA	L WELL	PLAN							
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* SysTVD*
*** RKB (at	MD = 0.	00)	f+	ft	ft	º/1 ∩∩ft	ft	ft	ft ft
0.00	0.00	0.0	0.00	0.00	0.00		0.00		
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00		
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00		
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00		
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00		
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00		
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00		
350.00	0.00	0.0	350.00	0.00	0.00	0.00	0.00		
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00		
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00		
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00		
550.00	0.00	0.0	550.00	0.00	0.00	0.00	0.00		
*** KOP (at	MD = 60	00.00)							
600.00	0.00	0.0	600.00	0.00	0.00	0.00	0.00		
650.00	0.63	105.3	650.00	-0.07	0.26	1.25	0.27		
700.00	1.25	105.3	699.99	-0.29	1.05	1.25	1.09		
750.00	1.88	105.3	749.97	-0.65	2.37	1.25	2.45		
800.00	2.50	105.3	799.94	-1.15	4.21	1.25	4.36		
850.00	3.13	105.3	849.88	-1.80	6.57	1.25	6.82		
900.00	3.75	105.3	899.79	-2.59	9.47	1.25	9.81		
950.00	4.38	105.3	949.66	-3.52	12.88	1.25	13.36		
1000.00	5.00	105.3	999.49	-4.60	16.82	1.25	17.44		
1050.00	5.63	105.3	1049.28	-5.82	21.29	1.25	22.07		
1100.00	6.25	105.3	1099.01	-7.19	26.28	1.25	27.24		
1150.00	6.88	105.3	1148.68	-8.70	31.79	1.25	32.96		
1200.00	7.50	105.3	1198.29	-10.35	37.82	1.25	39.21		
1250.00	8.13	105.3	1247.82	-12.14	44.38	1.25	46.01		
1300.00	8.75	105.3	1297.28	-14.08	51.46	1.25	53.35		
1350.00	9.38	105.3	1346.66	-16.16	59.05	1.25	61.22		
1400.00	10.00	105.3	1395.94	-18.38	67.17	1.25	69.64		
1450.00	10.63	105.3	1445.14	-20.74	75.80	1.25	78.59		
1500.00	11.25	105.3	1494.23	-23.24	84.95	1.25	88.07		
1550.00	11.88	105.3	1543.21	-25.88	94.62	1.25	98.10		
1600.00	12.50	105.3	1592.09	-28.67	104.80	1.25	108.65		
1650.00	13.13	105.3	1640.84	-31.60	115.50	1.25	119.74		

SES - Stoner Engineering Software

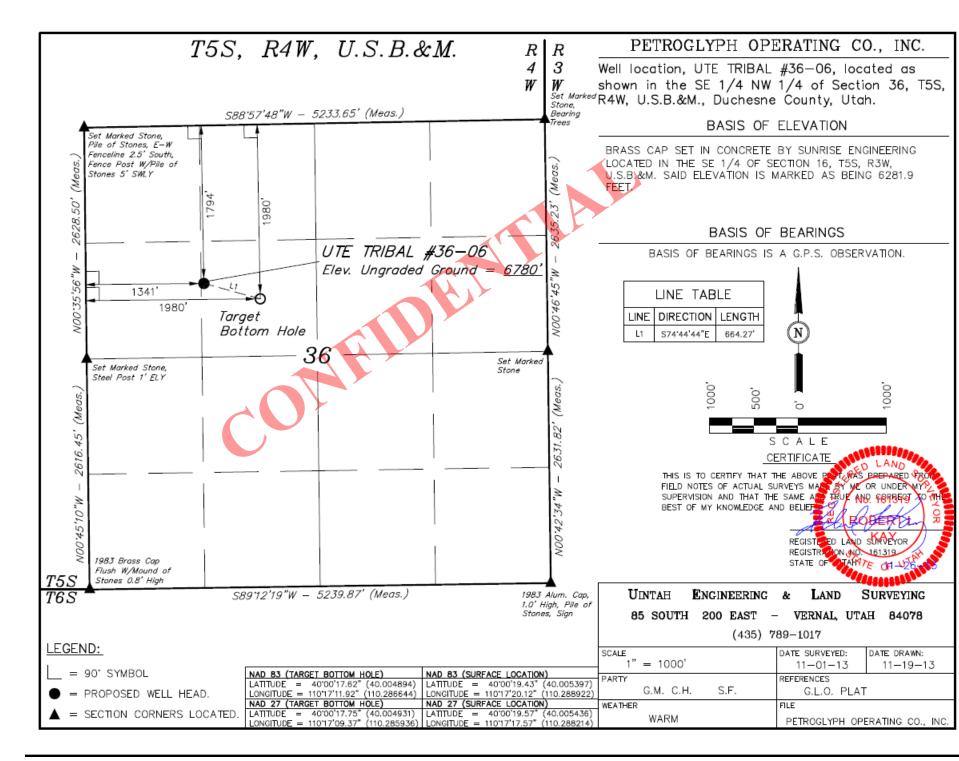
					36-06, F	Plan 1			
Operator Field Well Name Plan					feet, %100ft Duchesne UT		Vert	42 Thursday, March ical Section Azimuth Calculation Method Database	Minimum Curvature
Locatio		1794' FNL 8	§ 1341' FWL	BHL: 1980' l	FNL & 1980'	MapZon	е	Lat Long	Ref
Sit	FWL e					Surface	x	Surface L	ona
Slot Nam			UWI			Surface		Surface	
Well Number	er		API			Z Datur	n		
Projec	et					Surface 2	Z	Ground L	evel
DIRECTIONA	L WELL	PLAN							
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* SysTVD*
1700.00	13.75	105.3	1689.47	-34.66	126.70	1.25	131.36	ft	ft ft
*** END BUI				05.00	404.00	1.05	100 45		
1720.00 1750.00	14.00 14.00	105.3 105.3	1708.89	-35.93 -37.84	131.33	1.25 0.00	136.15 143.41		
			1738.00		138.33				
1800.00 1850.00	14.00 14.00	105.3 105.3	1786.51 1835.03	-41.03 -44.23	150.00 161.66	0.00	155.51 167.60		
1900.00	14.00	105.3	1883.54	-44.23 -47.42	173.33	0.00	179.70		
1300.00	14.00	100.0	1000.04	-41.42	173.33	0.00	173.70		
1950.00	14.00	105.3	1932.06	-50.61	185.00	0.00	191.80		
2000.00	14.00	105.3	1980.57	-53.80	196.67	0.00	203.89		
2050.00	14.00	105.3	2029.09	-56.99	208.33	0.00	215.99		
2100.00	14.00	105.3	2077.60	-60.19	220.00	0.00	228.08		
2150.00	14.00	105.3	2126.12	-63.38	231.67	0.00	240.18		
2200.00	14.00	105.3		-66.57	243.34	0.00	252.28		
2250.00	14.00	10 <mark>5</mark> .3	2223.15	-69.76	255.00	0.00	264.37		
2300.00	14.00	105.3	2271.66	-72.95	266.67	0.00	276.47		
2350.00	14.00	105.3	2320.17	-76.14	278.34	0.00	288.57		
2400.00	14.00	105.3	2368.69	-79.34	290.01	0.00	300.66		
2450.00	14.00	105.3	2417.20	-82.53	301.67	0.00	312.76		
2500.00	14.00	105.3	2465.72	-85.72	313.34	0.00	324.85		
2550.00	14.00	105.3	2514.23	-88.91	325.01	0.00	336.95		
2600.00	14.00	105.3	2562.75	-92.10	336.67	0.00	349.05		
2650.00	14.00	105.3	2611.26	-95.30	348.34	0.00	361.14		
2700.00	14.00	105.3	2659.78	-98.49	360.01	0.00	373.24		
2750.00	14.00	105.3	2708.29	-101.68	371.68	0.00	385.33		
2800.00	14.00	105.3	2756.81	-104.87		0.00	397.43		
2850.00	14.00	105.3	2805.32	-108.06	395.01	0.00	409.53		
2900.00	14.00	105.3	2853.84	-111.25	406.68	0.00	421.62		
2950.00	14.00	105.3	2902.35	-114.45	418.35	0.00	433.72		
3000.00	14.00	105.3	2950.87	-117.64		0.00	445.81		
3050.00	14.00	105.3	2999.38	-120.83		0.00	457.91		
3100.00	14.00	105.3	3047.90	-124.02		0.00	470.01		
3150.00	14.00	105.3	3096.41	-127.21	465.02	0.00	482.10		
*** START D	ROP (at	: MD = 319	95.00)						
3195.00	14.00			-130.09	475.52	0.00	492.99		
3200.00	13.95	105.3	3144.93	-130.41	476.68	1.00	494.20		

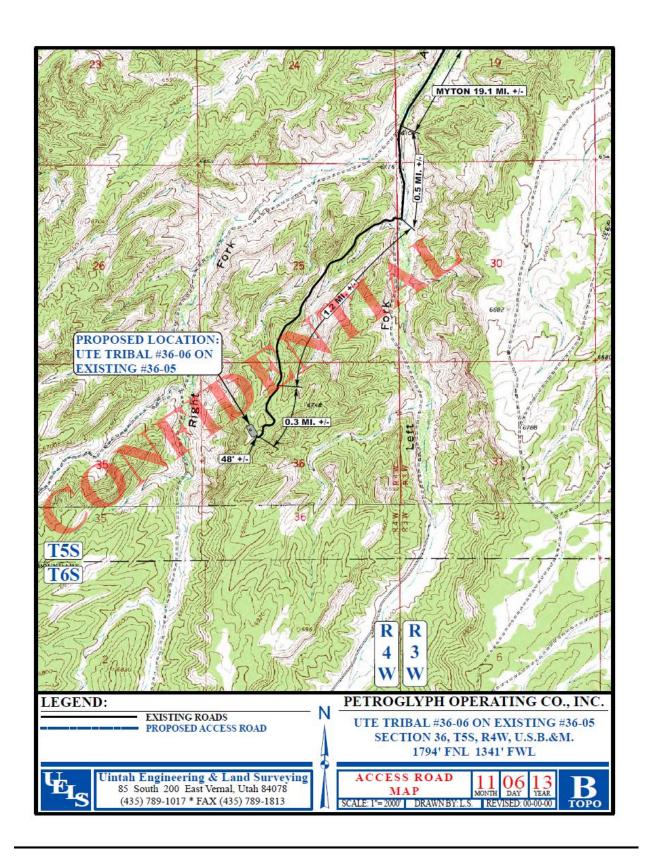
SES - Stoner Engineering Software

					36-06, F	Plan 1			
Operator Field Well Name (					feet, %100ft Duchesne UT		Vei	:42 Thursday, March rtical Section Azimuth ey Calculation Method Database	Minimum Curvature
Location		1794' FNL 8	k 1341' FWL	BHL: 1980' l	FNL & 1980'	MapZone		Lat Long	Ref
Site	FWL					SurfaceX		Surface L	ong
Slot Name			UWI			SurfaceY		Surface	•
Well Numbe			API			Z Datum			
Projec	t					Surface Z		Ground L	evel
DIRECTIONAL	L WELL	PLAN							
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* SysTVD*
3250.00	13.45	105.3	3193.50	-133.53	488.10	1.00	506.04	ft	ft ft
3300.00	12.95	105.3	3242.18	-136.54	499.12	1.00	517.46		
3350.00	12.45	105.3	3290.96	-139.44	509.72	1.00	528.45		
2223.00		. 50.0	5_50.00		200.72				
3400.00	11.95	105.3	3339.83	-142.23	519.91	1.00	539.01		
3450.00	11.45	105.3	3388.79	-144.91	529.69	1.00	549.15		
3500.00	10.95	105.3	3437.84	-147.47	539.06	1.00	558.87		
3550.00	10.45	105.3	3486.97	-149.92	548.01	1.00	568.15		
3600.00	9.95	105.3	3536.18	-152.26	556.55	1.00	577.00		
2650.00	0.45	105.0	0505.46	154 10	EC4.60	1.00	E0E 40		
3650.00	9.45	105.3	3585.46	-154.48	564.68	1.00	585.43		
3700.00	8.95	105.3	3634.82	-156.59	572.39	1.00	593.42		
3750.00	8.45	105.3	3684.24			1.00	600.98		
3800.00 3850.00	7.95 7.45	105.3 105.3	3733.73		586.56	1.00 1.00	608.12		
3650.00	7.45	105.3	3783.28	-162.23	593.02	1.00	614.82		
3900.00	6.95	105.3	3832.89	-163.89	599.07	1.00	621.08		
3950.00	6.45	105.3	3882.55	-165.43	604.70	1.00	626.92		
4000.00	5.95	105.3	3932.25	-166.85	609.90	1.00	632.32		
4050.00	5.45	105.3	3982.01	-168.16	614.69	1.00	637.28		
4100.00	4.95	105.3	4031.80	-169.36	619.07	1.00	641.81		
<i>4</i> 150.00	1 15	105.3	4081 63	-170.44	623.02	1.00	645.91		
4150.00 4200.00	4.45 3.95	105.3 105.3	4081.63 4131.50	-170.44 -171.40	623.02 626.55	1.00 1.00	649.57		
4250.00	3.45	105.3	4131.30	-171.40	629.66	1.00	652.80		
4300.00	2.95	105.3	4231.32	-172.26	632.35	1.00	655.59		
4350.00	2.45	105.3	4281.26	-172.99	634.63	1.00	657.94		
.555.56	0	. 00.0	00	1.70.01	00 1.00		557.01		
4400.00	1.95	105.3	4331.22	-174.12	636.48	1.00	659.86		
4450.00	1.45	105.3	4381.20	-174.51	637.91	1.00	661.35		
4500.00	0.95	105.3	4431.19	-174.79	638.92	1.00	662.39		
4550.00	0.45	105.3	4481.19	-174.95	639.51	1.00	663.01		
*** END DRO	•		•						
4595.00	0.00	0.0	4526.18	-175.00	639.68	1.00	663.18		
4600.00	0.00	0.0	4531.18	-175.00	639.68	0.00	663.18		
4650.00	0.00	0.0	4581.18	-175.00	639.68	0.00	663.18		
4700.00	0.00	0.0	4631.18	-175.00	639.68	0.00	663.18		
4750.00	0.00	0.0	4681.18	-175.00	639.68	0.00	663.18		
4800.00	0.00	0.0	4731.18	-175.00	639.68	0.00	663.18		
4850.00	0.00	0.0	4781.18	-175.00	639.68	0.00	663.18		

SES - Stoner Engineering Software

Operator Field Well Name					36-06, F				
Plan							Verti	2 Thursday, March cal Section Azimuth Calculation Method Database	Minimum Curvature
Location	SHL:	1794' FNL &	1341' FWL	BHL: 1980' l	FNL & 1980'	MapZon	ne	Lat Long	Ref
Site						Surface	×	Surface L	.ong
Slot Name			UWI			Surface		Surface	_
Well Numbe	r		API			Z Datui	m		
Projec	t					Surface	Z	Ground L	evel
DIRECTIONAL	L WELL	PLAN							
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* SysTVD*
4900.00	0.00	0.0	4831.18	-175.00	639.68	0.00	663.18	ft	ft f
4950.00	0.00	0.0	4881.18	-175.00	639.68	0.00	663.18		
5000.00	0.00	0.0	4931.18	-175.00	639.68	0.00	663.18		
5050.00	0.00	0.0	4981.18	-175.00	639.68	0.00	663.18		
5100.00	0.00	0.0	5031.18	-175.00	639.68	0.00	663.18		
5150.00	0.00	0.0	5081.18	-175.00	639.68	0.00	663.18		
5200.00	0.00	0.0	5131.18	-175.00	639.68	0.00	663.18		
5250.00	0.00	0.0	5181.18	-175.00	639.68	0.00	663.18		
5300.00	0.00	0.0	5231.18	-175.00	639.68	0.00	663.18		
5350.00	0.00	0.0	5281.18	-175.00	639.68	0.00	663.18		
5400.00	0.00	0.0	5331.18	-175.00	639.68	0.00	663.18		
5450.00	0.00	0.0	5381.18		639.68	0.00	663.18		
5500.00	0.00	0.0	5431.18	-175.00	639.68	0.00	663.18		
5550.00	0.00	0.0		-175.00	639.68	0.00	663.18		
5600.00	0.00	0.0	5531.18	-175.00	639.68	0.00	663.18		
5650.00	0.00	0.0	5581.18	-175.00	639.68	0.00	663.18		
5700.00	0.00	0.0	5631.18	-175.00	639.68	0.00	663.18		
5750.00	0.00	0.0	5681.18	-175.00	639.68	0.00	663.18		
5800.00	0.00	0.0	5731.18	-175.00	639.68	0.00	663.18		
5850.00	0.00	0.0	5781.18	-175.00	639.68	0.00	663.18		
5900.00	0.00	0.0	5831.18	-175.00	639.68	0.00	663.18		
5950.00	0.00	0.0	5881.18	-175.00	639.68	0.00	663.18		
6000.00	0.00	0.0	5931.18	-175.00	639.68	0.00	663.18		
6050.00	0.00	0.0	5981.18	-175.00	639.68	0.00	663.18		
6100.00	0.00	0.0	6031.18	-175.00	639.68	0.00	663.18		
6150.00 *** RTD (at	0.00	0.0	6081.18	-175.00	639.68	0.00	663.18		
6181.00	0.00	0.0	6112.18	-175.00	639.68	0.00	663.18		





PETROGLYPH OPERATING CO., INC. P.O. BOX 607 ROOSEVELT, UTAH 84066

April 15, 2014

Ms. Diana Mason State of Utah Division of Oil, Gas & Mining 1594 West North Temple, Suite 1210 P.O. Box 145801 Salt Lake City, UT 84114-5801

Re: Directional Drilling R649-3-11

Ute Tribal 36-06: 1794' FNL & 1341' FWL, (Surface Hole)

1980' FNL & 1980' FWL, (Bottom Hole) SE/NW, Sec. 36, T5S, R4W, U.S.B.&M.,

<u>Duchesne County</u>, <u>Utah</u>

Dear Ms. Mason,

Pursuant to the filing of Petroglyph Operating Co., Inc.'s Application for Permit to Drill regarding the above referenced well on April 15, 2014, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- The Ute Tribal 36-06 is located within the Antelope Creek Unit Area.
- Petroglyph Operating Co., Inc. is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and drilling directionally from this location, Petroglyph Operating Co., Inc. will be able to utilize the existing road and pipelines in the area.
- Furthermore, Petroglyph Operating Co., Inc. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Petroglyph Operating Co., Inc. requests the permit be granted pursuant to R649-3-11.

Respectfully Submitted,

Ed Trotter, Agent P.O. Box 1910 Vernal, UT 84078 Phone: (435)789-4120

Fax: (435)789-1420

E-mail: edtrotter@easilink.com

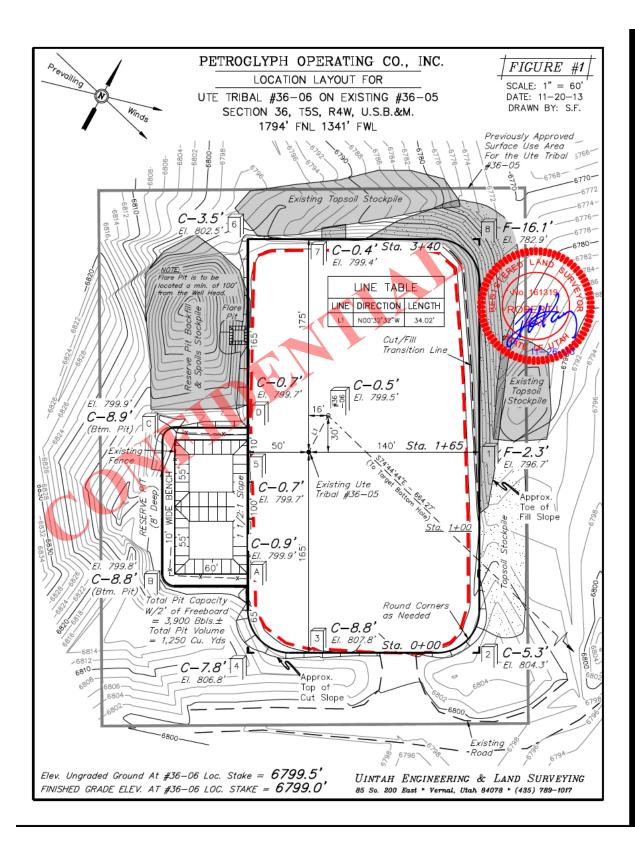
#### Certification

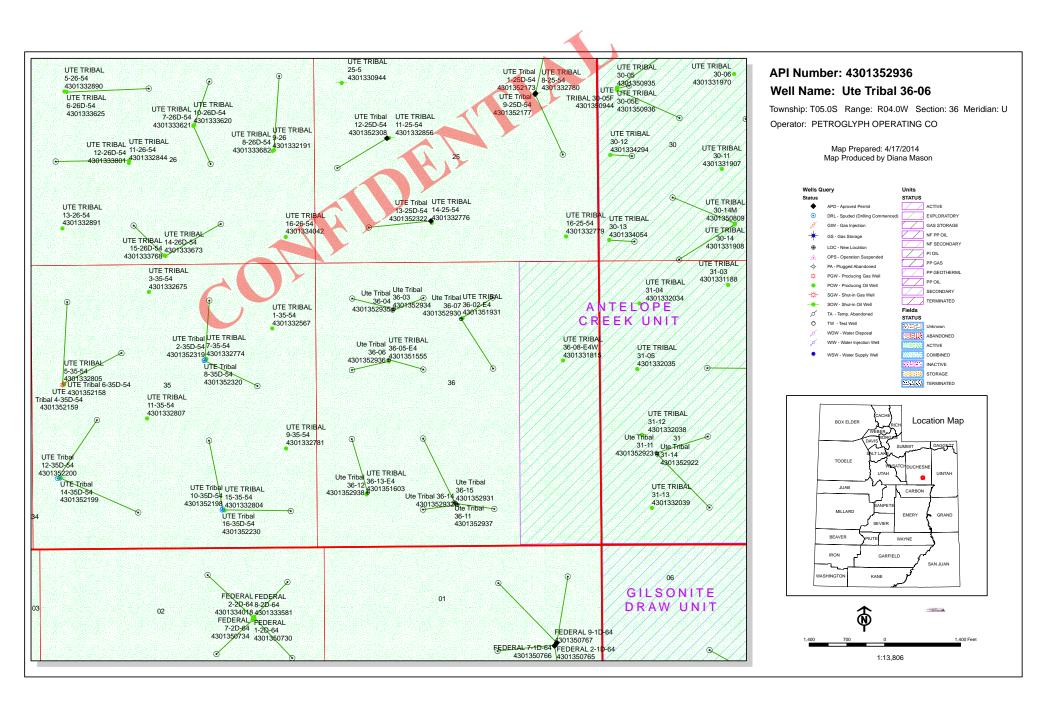
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the UTE TRIBAL 36-06 Well, located in the SE/NW of Section 36, T5S, R4W, Duchesne County, Utah; Lease #14-20-H62-4745; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #LPM4138335.

Date

Ed Trotter, as Agent for Petroglyph Operating Co., Inc.





#### **WORKSHEET** APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 4/15/2014 API NO. ASSIGNED: 43013529360000 WELL NAME: Ute Tribal 36-06 **OPERATOR:** PETROGLYPH OPERATING CO (N3800) PHONE NUMBER: 435 789-4120 **CONTACT:** Ed Trotter PROPOSED LOCATION: SENW 36 050S 040W **Permit Tech Review: SURFACE: 1794 FNL 1341 FWL Engineering Review:** BOTTOM: 1980 FNL 1980 FWL Geology Review: **COUNTY: DUCHESNE LATITUDE**: 40.00547 LONGITUDE: -110.28889 **UTM SURF EASTINGS: 560696.00** NORTHINGS: 4428606.00 FIELD NAME: BRUNDAGE CANYON LEASE TYPE: 2 - Indian

**LOCATION AND SITING:** 

R649-3-2. General

R649-3-3. Exception

Board Cause No: R649-3-11

R649-3-11. Directional Drill

**Drilling Unit** 

**Effective Date:** 

Siting:

R649-2-3.

Unit:

**LEASE NUMBER: 1420H624745** PROPOSED PRODUCING FORMATION(S): GREEN RIVER SURFACE OWNER: 2 - Indian **COALBED METHANE: NO** 

## **RECEIVED AND/OR REVIEWED:**

✓ PLAT

Bond: INDIAN - LPM4138336

**Potash** 

Oil Shale 190-5

Oil Shale 190-3

Oil Shale 190-13

Water Permit: 43-8342

**RDCC Review:** 

Fee Surface Agreement

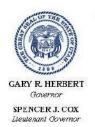
**Commingling Approved** 

Intent to Commingle

Comments: Presite Completed

Stipulations: 1 - Exception Location - bhill

4 - Federal Approval - dmason 15 - Directional - dmason 23 - Spacing - dmason



# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

### Permit To Drill

\*\*\*\*\*

Well Name: Ute Tribal 36-06 API Well Number: 43013529360000 Lease Number: 1420H624745

Surface Owner: INDIAN Approval Date: 4/21/2014

#### **Issued to:**

PETROGLYPH OPERATING CO, 960 Broadway Avenue, Ste 500, Boise, ID 83703

#### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

#### **Exception Location:**

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

#### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### **Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled,

completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

#### **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available) OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

#### Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
  - Requests to Change Plans (Form 9) due prior to implementation
  - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
  - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas

			1
	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURG DIVISION OF OIL, GAS, AND MI		5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H624745
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE		
	pposals to drill new wells, significantly reenter plugged wells, or to drill horizon for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: Ute Tribal 36-06	
2. NAME OF OPERATOR: PETROGLYPH OPERATING O	9. API NUMBER: 43013529360000		
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste	500 , Boise, ID, 83703	PHONE NUMBER: 208 685-7685 Ext	9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1794 FNL 1341 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSI Qtr/Qtr: SENW Section:	HIP, RANGE, MERIDIAN: 36 Township: 05.0S Range: 04.0W Mer	idian: U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
✓ SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud: 10/5/2014	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
10/3/2014	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
Report Bate.		OTHER	
	WILDCAT WELL DETERMINATION		OTHER:
This well was spuc Bucket Rig provide	COMPLETED OPERATIONS. Clearly show I on 10/5/2014 at approximated by Craig's Energy, Vernal additional information please 435-722-2531.	ately 9:00 A.M. Using a Utah, we set 60' of 16"	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 06, 2014
NAME (PLEASE PRINT) Rodrigo Jurado	<b>PHONE NUME</b> 435 722-5302	BER TITLE Regulatory & Compliance S	ipc
SIGNATURE N/A		<b>DATE</b> 10/6/2014	

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H624745
SUNDR	RY NOTICES AND REPORTS (	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
	posals to drill new wells, significantly or reenter plugged wells, or to drill horizor n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: UTE TRIBAL 36-06-E4
2. NAME OF OPERATOR: PETROGLYPH OPERATING C	00		9. API NUMBER: 43013529360000
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste	500 , Boise, ID, 83703	PHONE NUMBER: 208 685-7685 Ext	9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1794 FNL 1341 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 36 Township: 05.0S Range: 04.0W Merio	lian: U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
10/12/2014	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	✓ DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:			
Date of Spud.	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	L TUBING REPAIR	VENT OR FLARE	☐ WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
The well referenced 6181' MD (6112' TV to a revised TD of change and cement	above is currently permitted above is currently permitted (VD). Petroglyph Operating professor (B822' MD (6762' TVD). The Expressor (B822' MD) (6762' TVD) (6762' MD) (6762' TVD). The Expressor (B822' MD) (6762' TVD) (6762' MD) (6762' TVD) (6762' TV	to be drilled to a TD of oposes to drill the well BHL of the well will not order to ensure cement	
NAME (PLEASE PRINT)	PHONE NUMBI		nc
Rodrigo Jurado	435 722-5302	Regulatory & Compliance S	μc
<b>SIGNATURE</b>   N/A		<b>DATE</b> 10/7/2014	

### CONFIDENTIAL

# NINE POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 36-06-E4 SE NW, SEC 36, T5S, R4W DUCHESNE COUNTY, UTAH

#### 1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation		Subsea	TVD	MD
Rig KB=~13' above GGL		6812	0	0
Surface Formation = <b>Uinta</b>				
Uinta		6799	13	13
Green River		5360	1452	1457
Trona		4130	2682	2723
Mahogany Shale		3963	2849	2896
"B" Marker	_ =	2904	3908	3976
"X" Marker		2436	4376	4445
Douglas Creek Marker		2299	4513	4582
"B" Limestone	Waterflood Unit Interval	1923	4889	4958
Base Castle Peak Limestone	<b>&gt;</b> 5	1378	5434	5503
BSCARB		947	5865	5937
Wasatch		684	6128	6188
Formation at TD: Wasatch	Rig TD	50	6762	6822

# 2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:

Substance	Formation	Subsea	TVD	MD
Base of moderately saline ground	Uinta	6000	812	812
water*				
Oil/Gas	Douglas Creek	2299	4513	4582
Oil/Gas	Castle Peak	1378	5434	5503

Any water encountered during drilling shall be sampled, analyzed and reported to BLM, Vernal office using State of Utah DOGM Form 7 Report of Water Encountered during Drilling. The following analyses shall be performed on any water encountered:

Flow rate (or blowtest)

Temperature

pH

TDS

Dissolved Bioorth

Dissolved Bioorth

Dissolved Bioorth

Dissolved Iron Dissolved Magnesium Dissolved Bicarb. Dissolved Sulfate
Dissolved Calcium Dissolved Sodium Dissolved Carbonate Dissolved Chloride

All depths through the "Base of moderately saline ground water", along with any water encountered below that depth which is less than 10,000 TDS, shall be protected by the surface casing or by lifting the cement of the production casing into the surface casing.

\*Base of Moderately Saline Groundwater from Howells, Longson and Hunt, 1981, Utah State Technical Publication 92: The Base of the Moderately Saline Water in the Uinta Basin, Utah



## **CONFIDENTIAL**

# NINE POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 36-06-E4 SE NW, SEC 36, T5S, R4W DUCHESNE COUNTY, UTAH

#### 3. PROPOSED CASING PROGRAM:

String	Hole	Casing	Top - MD	Bottom - MD	Weight lb/ft	Grade	Thread
Conductor	20"	14"	surface	53'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	493'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	6822'	15.5	J-55	LTC

String	Hole	Casing	Collapse	Burst	Tensile
Surface	12-1/4"	8-5/8"	1,370 psi	2,950 psi	244,000 lb
Production	7-7/8"	5-1/2"	4,040 psi	4,810 psi	248,000 lb

- All casing will be new or inspected.
- The surface and production strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.
- The production string shall have a <u>minimum</u> of one (1) centralizer for every three (3) joints from TD to the top of the "B" marker at 3976'MD.

#### 4. PROPOSED CEMENTING PROGRAM:

String	Тор	Cement Description	Sacks	Excess	Weight	Yield
oug	Bottom	<b>3</b>	Vol (ft³)	ZXCCC	(ppg)	(ft³/sk)
Conductor	0 53	Construction Grade Cement	Sufficier	nt volumes	to grout Co	onductor
Surface	0	Class G +2% CaCl2	226	30%	15.8	1.17
Surface	493	+0.25 lb/sk Cello Flake	264	30%	13.0	1.17
Production	0	EXPANDACEM (Class G +additives)	467	30%	12.5	1.92
Lead	3976	+ 1 lb/sk Granulite TR1/4 (LCM)	896	30%	12.5	1.92
Production	3976	EXPANDACEM (Class G +additives)	439	30%	13.4	1.46
Tail	6822	+ 1 lb/sk Granulite TR1/4 (LCM)	641	30%	13.4	1.40

- The 8-5/8" surface casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.
- The 5-1/2" production casing shall be cemented back to surface. In the event that during the primary cementing operation the cement does not circulate to surface, a remedial cementing operation shall be performed only if necessary to lift cement above the Surface Casing Shoe at 493'MD.



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#### 5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

- An 8", 2000 PSI, Double Ram BOPE with Hydraulic Closing Unit shall be used.
- A 2000 PSI Working Pressure Annular shall be used.
- The flowline shall have a minimum diameter of 10".
- Auxiliary equipment shall be a Kelly Cock, Bit Float, and a TIW valve with drill pipe threads.
- Spark arrestors shall be equipped on all engine exhausts within 100 feet of the wellbore.
- See attached 2,000 psi BOP schematic diagram.

#### **BOPE TESTING PROCEDURE:**

• The BOPE shall be tested by a professional tester to conform to Onshore Order #2.

#### 6. MUD PROGRAM:

#### A. SURFACE HOLE

- The surface hole will be drilled with an air/mist system from 0' to 493'. All cuttings shall be directed to pit.
- A trailer-mounted compressor with a capacity of 2000 CFM will be used. Compressor will have a safety shut-off valve located less than 15 feet from the driller's controls of the rig.
- The rat and mouse holes will be drilled with the air rig after surface casing is cemented.
- The 140 barrel water truck used with the deduster will be the source of kill fluid in the highly unlikely event of pressure being encountered during drilling of the surface hole.
- Operator requests the following variances from Onshore Order 2 part E during drilling of the surface hole. Operator will use air drilling techniques only on surface hole:
  - Operator requests a variance to regulations requiring the blooie line discharge to be 100' from the wellbore. Due to reduced location size, the blooie line discharge will be approximately 75' from the wellbore and securely anchored.
  - Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. A mister shall be on the end of the blooie line.
  - Operator requests a variance to regulations requiring compressors be located in the opposite direction from the blooie line; a minimum of 100' from the wellbore. Due to the reduced location size, the compressors shall be located as close as is reasonable to the opposite direction from the blooie line and 75' from the wellbore.
  - Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl shall be utilized on the diverter system in place of a BOPE.



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# NINE POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 36-06-E4 SE NW, SEC 36, T5S, R4W DUCHESNE COUNTY, UTAH

#### PRODUCTION HOLE

- The production hole shall be drilled with a freshwater polymer system from 493' to 6822'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Diammonium Phosphate (DAP) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 8.3-8.8 lbs/gal. although mud weight up to 10lbs/gal may be used if necessary to prevent wellbore wall instability due to the planned inclination of the well.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 10lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least: a pit volume totalizer (PVT), a stroke counter, and a mudflow indicator.
- A mud-gas separator shall be available on location.

#### B. HAZARDOUS MATERIALS AND POLLUTANTS

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior DOGM approval to ensure adequate protection of freshwater aquifers.
- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities shall NOT be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.



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#### 7. EVALUATION PROGRAM:

Logs: Triple Combo TD to base of surface casing (AIT, DSN, CDL)

Base of surface casing to surface (GR only)

Cores: None planned

DST: None planned

Testing: Operator plans no testing until the completion phase of the well.

#### 8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No  $H_2S$  has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 1706 PSI (0.25 PSI/ft gradient).
- This well is NOT in the vicinity of active injection wells. Nearby active injection can cause pressures up to a 0.433 PSI/ft gradient.

#### 9. DIRECTIONAL WELL PLAN:

- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- While cutting the Waterflood Unit Interval from 3976' to 5937', the actual well path may be allowed to vary up to 100' horizontally from plan in order to prevent excessive slide drilling.

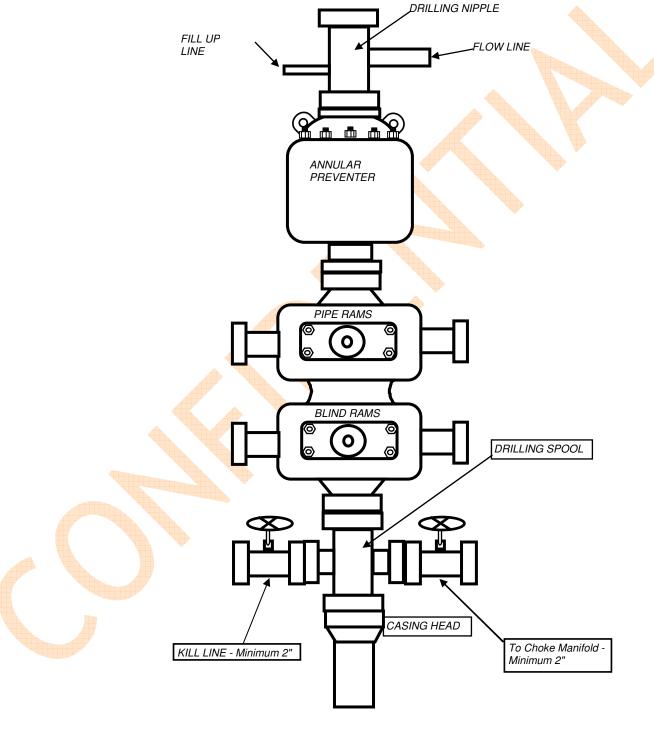
  Above and below the Waterflood Unit Interval, variances in excess 100' horizontally from plan may be allowed.
- Directional drilling plan is attached.



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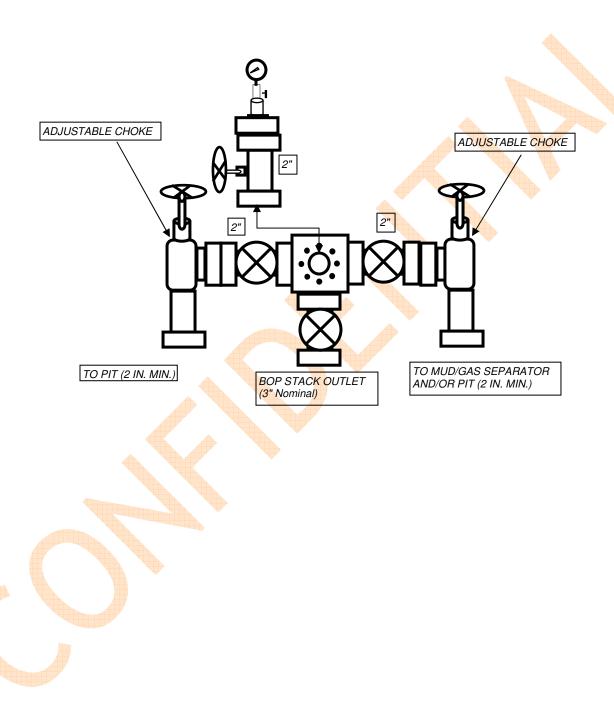
# TYPICAL 2,000 p.s.i. BLOWOUT PREVENTER



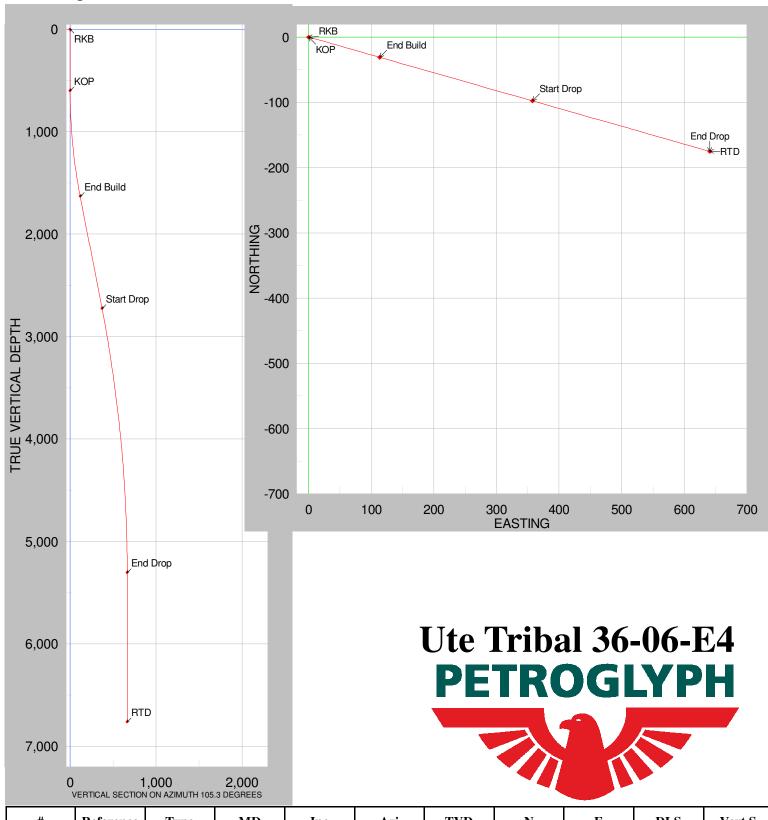


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NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 36-06-E4
SE NW, SEC 36, T5S, R4W
DUCHESNE COUNTY, UTAH
TYPICAL 2,000 p.s.i. CHOKE MANIFOLD







#	Reference	Type	MD	Inc	Azi	TVD	N	E	DLS	Vert S
0	RKB	Tie Point	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1	КОР	Vertical	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
2	End Build	Build	1640.00	13.00	105.30	1631.10	-31.00	113.32	1.25	117.48
3	Start Drop	Tangent	2765.00	13.00	105.30	2727.27	-97.78	357.42	0.00	370.55
4	End Drop	Drop	5365.00	0.00	0.00	5305.02	-175.28	640.70	0.50	664.25
5	RTD	Vertical	6822.00	0.00	0.00	6762.02	-175.28	640.70	0.00	664.25

RECEIVED: Oct. 07, 2014

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				3(	6-06-E4	Plan 1			
Operator Field Well Name Plan				Units	feet, %100ft Duchesne UT		11:06 <b>Vertic</b>	5 Monday, October cal Section Azimuth Calculation Method Database	Minimum Curvature
Locatio		1794' FNL 8	& 1341' FWL	BHL: 1980' I	FNL & 1980'	MapZone	•	Lat Long	Ref
Sit	FWL te					SurfaceX	(	Surface L	.ona
Slot Nam			UWI			Surface		Surface	•
Well Number	er		API			Z Datum	1		
Projec	ct					Surface 2	<u>.</u>	Ground L	evel
DIRECTIONA	L WELL P	LAN							
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* SysTVD*
*** RKB (at	MD = 0.0	00)	f+	f+	f+	∘/1∩∩f+	ft.	ft	f+ f+
0.00	0.00	0.0	0.00	0.00	0.00		0.00		
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00		
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00		
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00		
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00		
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00		
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00		
350.00	0.00	0.0	350.00	0.00	0.00	0.00	0.00		
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00		
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00		
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00		
550.00	0.00	0.0	550.00	0.00	0.00	0.00	0.00		
*** KOP (at									
600.00	0.00	0.0	600.00	0.00	0.00	0.00	0.00		
650.00	0.63	105.3	650.00	-0.07	0.26	1.25	0.27		
700.00	1.25	105.3	699.99	-0.29	1.05	1.25	1.09		
750.00	1.88	105.3	749.97	-0.65	2.37	1.25	2.45		
800.00	2.50	105.3	799.94	-1.15	4.21	1.25	4.36		
850.00	3.13	105.3	849.88	-1.80	6.57	1.25	6.82		
900.00	3.75	105.3	899.79	-2.59	9.47	1.25	9.81		
950.00	4.38	105.3	949.66	-3.52	12.88	1.25	13.36		
1000.00	5.00	105.3	999.49	-4.60	16.82	1.25	17.44		
1050.00	5.63	105.3	1049.28	-5.82	21.29	1.25	22.07		
1100.00	6.25	105.3	1099.01	-7.19	26.28	1.25	27.24		
1150.00	6.88	105.3	1148.68	-8.70	31.79	1.25	32.96		
1200.00	7.50	105.3	1198.29	-10.35	37.82	1.25	39.21		
1250.00	8.13	105.3	1247.82	-12.14	44.38	1.25	46.01		
1300.00	8.75	105.3	1297.28	-14.08	51.46	1.25	53.35		
1350.00	9.38	105.3	1346.66	-16.16	59.05	1.25	61.22		
1400.00	10.00	105.3	1395.94	-18.38	67.17	1.25	69.64		
1450.00	10.63	105.3	1445.14	-20.74	75.80	1.25	78.59		
1500.00	11.25	105.3	1494.23	-23.24	84.95	1.25	88.07		
1550.00 1600.00	11.88 12.50	105.3 105.3	1543.21	-25.88 -28.67	94.62 104.80	1.25 1.25	98.10 108.65		
	1/50	าบอ.ส	1592.09	-Z8.b/	1114 XI)	1 /2	וווא מא		

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				3(	6-06-E4	, Plan 1	1		
Operator Field Well Name Plan							Vertic	Monday, October al Section Azimuth Calculation Method Database	Minimum Curvature
Locatio		1794' FNL 8	k 1341' FWL	BHL: 1980' I	FNL & 1980'	MapZon	е	Lat Long	Ref
Sit	FWL					Surface	¥	Surface L	ong
Slot Nam			UWI			Surface'		Surface	
Well Number			API			Z Datun			
Projec	ct					Surface 2	Z	Ground L	evel
DIRECTIONA	L WELL F	LAN							
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* SysTVD*
*** END BUI	ID (at M	D = 1640	.00)	ft	f+	∘/1∩∩f+	f+	ft	ft ft
1640.00	13.00	105.3	1631.10	-31.00	113.32	1.25	117.48		
1650.00	13.00	105.3	1640.84	-31.59	115.49	0.00	119.73		
<b>,</b>									
1700.00	13.00	105.3	1689.56	-34.56	126.33	0.00	130.98		
1750.00	13.00	105.3	1738.28	-37.53	137.18	0.00	142.22		
1800.00	13.00	105.3	1787.00	-40.50	148.03	0.00	153.47		
1850.00	13.00	105.3	1835.72	-43.46	158.88	0.00	164.72		
1900.00	13.00	105.3	1884.44	-46.43	169.73	0.00	175.97		
1950.00	13.00	105.3	1933.15	-49.40	180.58	0.00	187.21		
2000.00	13.00	105.3	1981.87	-52.37	191.43	0.00	198.46		
2050.00	13.00	105.3	2030.59	-55.34	202.28	0.00	209.71		
2100.00	13.00	105.3	2079.31	-58.30	213.13	0.00	220.96		
2150.00	13.00	105.3	2128.03	-61.27	223.97	0.00	232.20		
2200.00	13.00	105.3	2176.75	-64.24	234.82	0.00	243.45		
2250.00	13.00	105.3	2225.47	-67.21	245.67	0.00	254.70		
2300.00	13.00	105.3	2274.18	-70.18	256.52	0.00	265.95		
2350.00	13.00	105.3	2322.90	-73.14	267.37	0.00	277.19		
2400.00	13.00	105.3	2371.62	-76.11	278.22	0.00	288.44		
2450.00	13.00	105.3	2420.34	-79.08	289.07	0.00	299.69		
2500.00	13.00	105.3	2469.06	-82.05	299.92	0.00	310.94		
2550.00	13.00	105.3	2517.78	-85.02	310.77	0.00	322.18		
2600.00	13.00	105.3	2566.49	-87.98	321.61	0.00	333.43		
2650.00	13.00	105.3	2615.21	-90.95	332.46	0.00	344.68		
2700.00	13.00	105.3	2663.93	-93.92	343.31	0.00	355.93		
2750.00	13.00	105.3	2712.65	-96.89	354.16	0.00	367.17		
*** START D	ROP (at	MD = 276	55.00)						
2765.00	13.00	105.3	2727.27	-97.78	357.42	0.00	370.55		
2800.00	12.83	105.3	2761.38	-99.84	364.96	0.50	378.37		
2850.00	12.58	105.3	2810.16	-102.74	375.56	0.50	389.36		
2900.00	12.33	105.3	2858.98	-105.59	385.96	0.50	400.14		
2950.00	12.08	105.3	2907.85	-103.33	396.15	0.50	410.71		
3000.00	11.83	105.3	2956.77	-111.11	406.14	0.50	421.06		
3050.00	11.58	105.3	3005.73	-113.78	415.92	0.50	431.20		
3100.00	11.33	105.3	3054.73	-116.40	425.49	0.50	441.13		
						2.00			
3150.00	11.08	105.3	3103.78	-118.96	434.86	0.50	450.84		

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				3	6-06-E4,	, Plan 1			
Operator Field Well Name Plan							Vertic	Monday, October al Section Azimuth Calculation Method Database	Minimum Curvature
Location		1794' FNL 8	<u> </u>	BHL: 1980' I	FNL & 1980'	MapZone	•	Lat Long	Ref
Si	FWL te					SurfaceX	<u> </u>	Surface L	ona
Slot Nam			UWI			SurfaceY		Surface	
Well Numb			API			Z Datum			
Proje	ct					Surface Z	2	Ground L	evel
DIRECTION	\L WELL F	PLAN							
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* SysTVD*
3300 00	10.00	105.2	3152.87	-121.47	444.02	°/100ft	460.34	• f+	- ++ ++
3200.00 3250.00	10.83 10.58	105.3 105.3	3152.87	-121.47 -123.92	444.02 452.97	0.50 0.50	460.34 469.62		
3250.00	10.58	105.3	3202.00	-123.92 -126.31	452.97 461.72	0.50	469.62 478.69		
3350.00	10.33	105.3	3251.17	-126.31 -128.65	461.72 470.26	0.50	478.69 487.54		
3330.00	10.08	100.3	3300.38	-120.03	4/0.20	0.50	+07.34		
3400.00	9.83	105.3	3349.63	-130.93	478.60	0.50	496.18		
3450.00	9.58	105.3	3398.92	-133.15	486.72	0.50	504.61		
3500.00	9.33	105.3	3448.24	-135.32	494.64	0.50	512.81		
3550.00	9.08	105.3	3497.59	-137.43	502.35	0.50	520.81		
3600.00	8.83	105.3	3546.99	-139.48	509.85	0.50	528.59		
3650.00	8.58	105.3	3596.41	-141.48	517.15	0.50	536.15		
3700.00	8.33	105.3	3645.87	-143.41	524.23	0.50	543.50		
3750.00	8.08	105.3	3695.36	-145.30	531.11	0.50	550.63		
3800.00	7.83	105.3	3744.88	-147.12	537.78	0.50	557.54		
3850.00	7.58	105.3	3794.42	-148.89	544.25	0.50	564.24		
3900.00	7.33	105.3	3844.00	-150.60	550.50	0.50	570.73		
3950.00	7.33 7.08	105.3	3893.61	-150.60	556.54	0.50	570.73 576.99		
4000.00	6.83	105.3	3943.24	-152.25	562.38	0.50	583.04		
4050.00	6.58	105.3	3992.90	-155.39	568.01	0.50	588.88		
4100.00	6.33	105.3	4042.58	-155.39	573.42	0.50	594.49		
<del>-</del> 100.00	0.00	100.0	+∪ <del>+</del> ∠.∪∪	100.07	J1 J.42	0.00	JJ4.7J		
4150.00	6.08	105.3	4092.29	-158.30	578.63	0.50	599.89		
4200.00	5.83	105.3	4142.02	-159.66	583.63	0.50	605.08		
4250.00	5.58	105.3	4191.77	-160.97	588.42	0.50	610.04		
4300.00	5.33	105.3	4241.55	-162.23	593.00	0.50	614.79		
4350.00	5.08	105.3	4291.34	-163.42	597.37	0.50	619.32		
4400.00	4.83	105.3	4341.16	-164.56	601.53	0.50	623.64		
4450.00	4.58	105.3	4390.99	-165.64	605.49	0.50	627.73		
4500.00	4.33	105.3	4440.84	-166.67	609.23	0.50	631.61		
4550.00	4.08	105.3	4490.70	-167.63	612.76	0.50	635.28		
4600.00	3.83	105.3	4540.58	-168.54	616.08	0.50	638.72		
4650.00	3.58	105.3	4590.48	-169.39	619.19	0.50	641.95		
4700.00	3.33	105.3	4640.39	-170.19	622.10	0.50	644.96		
4750.00	3.08	105.3	4690.31	-170.19	624.79	0.50	647.75		
4800.00	2.83	105.3	4740.24	-170.92	627.27	0.50	650.32		
4850.00	2.58	105.3	4740.24	-171.00	629.54	0.50	652.68		
1000.00	2.00		17.50.15	. ,	020.04	0.00	302.00		
4900.00	2.33	105.3	4840.14	-172.79	631.60	0.50	654.81		

Sundry Number: 56442 API Well Number: 43013529360000

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Operator Field Well Name 36									
Plan 1	6-06-E4						Vertic	al Section Azimutl Calculation Method	or 06, 2014 Page 4 of 5 1 105.3 1 Minimum Curvature 2 Access
Location		1794' FNL 8	k 1341' FWL	BHL: 1980'	FNL & 1980'	MapZon	ie	Lat Lon	g Ref
Site Slot Name Well Number Project	FWL		UWI API			Surface Surface Z Datui Surface	Y m	Surface Surface Ground	ce Lat
DIRECTIONAL	WELL F	PLAN							
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* SysTVD
4950.00	2.08	105.3	4890.11	-173.29	633.46	0.50	656.73	ft	ft f
5000.00	1.83	105.3	4940.08	-173.74	635.10	0.50	658.43		
5050.00	1.58	105.3	4990.05	-174.13	636.53	0.50	659.92		
5100.00	1.33	105.3	5040.04	-174.47	637.75	0.50	661.18		
5150.00	1.08	105.3	5090.03	-174.74	638.76	0.50	662.23		
		105.3							
5200.00	0.83		5140.02	-174.96	639.56	0.50	663.06		
5250.00	0.58	105.3	5190.02	-175.12	640.15	0.50	663.67		
5300.00	0.33	105.3	5240.02	-175.23	640.53	0.50	664.06		
5350.00	0.08	105.3	5290.02	-175.27	640.69	0.50	664.24		
** END DROP	at MI	D = 5365.	00)						
5365.00	0.00	0.0	5305.02	-175.28	640.70	0.50	664.25		
5400.00	0.00	0.0	5340.02	-175.28	640.70	0.00	664.25		
5450.00	0.00	0.0	5390.02	-175.28	640.70	0.00	664.25		
5500.00	0.00	0.0	5440.02	-175.28	640.70	0.00	664.25		
5550.00	0.00	0.0	5490.02	-175.28	640.70	0.00	664.25		
5600.00	0.00	0.0	5540.02	-175.28	640.70	0.00	664.25		
5650.00	0.00	0.0	5590.02	-175.28	640.70	0.00	664.25		
5700.00	0.00	0.0	5640.02	-175.28	640.70	0.00	664.25		
5750.00	0.00	0.0	5690.02	-175.28	640.70	0.00	664.25		
5800.00	0.00	0.0	5740.02	-175.28	640.70	0.00	664.25		
5850.00	0.00	0.0	5790.02	-175.28	640.70	0.00	664.25		
5900.00	0.00	0.0	5840.02	-175.28	640.70	0.00	664.25		
5950.00	0.00	0.0	5890.02	-175.28	640.70	0.00	664.25		
6000.00	0.00	0.0	5940.02	-175.28	640.70	0.00	664.25		
6050.00	0.00	0.0	5990.02	-175.28	640.70	0.00	664.25		
6100.00	0.00	0.0	6040.02	-175.28	640.70	0.00	664.25		
6150.00	0.00	0.0	6090.02	-175.28	640.70	0.00	664.25		
6200.00	0.00	0.0	6140.02	-175.28	640.70	0.00	664.25		
6250.00	0.00	0.0	6190.02	-175.28	640.70	0.00	664.25		
6300.00	0.00	0.0	6240.02	-175.28	640.70	0.00	664.25		
6350.00	0.00	0.0	6290.02	-175.28	640.70	0.00	664.25		
6400.00	0.00	0.0	6340.02	-175.28	640.70	0.00	664.25		
6450.00	0.00	0.0	6390.02	-175.28	640.70	0.00	664.25		
6500.00	0.00	0.0	6440.02	-175.28	640.70	0.00	664.25		
6550.00	0.00	0.0	6490.02	-175.28	640.70	0.00	664.25		

Sundry Number: 56442 API Well Number: 43013529360000

				30	6-06-E4,	Plan 1				
Operator				Units	feet, %100ft		11:06	Monday, Octobe	r 06, 2014	Page 5 of
Field				County	Duchesne		Vertic	al Section Azimuth	105.3	
Well Name	36-06-E4			State	UT		Survey (	Calculation Method	Minimum C	Curvature
Plan	1			Country	USA			Database	Access	
Locatio	n SHL: FWL	1794' FNL 8	1341' FWL	BHL: 1980' I	FNL & 1980'	MapZone		Lat Lon	g Ref	
Sit	te					SurfaceX		Surface	Long	
Slot Nam	ie		UWI			SurfaceY		Surfac	e Lat	
Well Number	er		API			Z Datum				
Proje	ct					Surface Z		Ground	Level	
DIRECTION/	L WELL	PLAN								
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD
6600.00	0.00	0.0	6540.02	-175.28	640.70	0.00	664.25	ft	f	
6650.00	0.00	0.0	6590.02	-175.28	640.70	0.00	664.25			
6700.00	0.00	0.0	6640.02	-175.28	640.70	0.00	664.25			
6750.00	0.00	0.0	6690.02	-175.28	640.70	0.00	664.25			
6800.00	0.00	0.0	6740.02	-175.28	640.70	0.00	664.25			
** RTD (at	MD - 69	222 001								
6822.00	0.00	0.0	6762.02	-175.28	640.70	0.00	664.25			
0022.00	0.00	0.0	0702.02	170.20	040.70	0.00	004.20			

	STATE OF UTAH			FORM 9
I	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI		i	5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H624745
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE			
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME:			
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: UTE TRIBAL 36-06-E4			
2. NAME OF OPERATOR: PETROGLYPH OPERATING C	9. API NUMBER: 43013529360000			
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste	500 , Boise, ID, 83703		NE NUMBER: 3 685-7685 Ext	9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1794 FNL 1341 FWL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SENW Section: 3	HP, RANGE, MERIDIAN: 36 Township: 05.0S Range: 04.0W Mei	ridian:	U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICA	TE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
7	ACIDIZE		ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start: 10/6/2014	CHANGE TO PREVIOUS PLANS		CHANGE TUBING	✓ CHANGE WELL NAME
	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	□ F	RACTURE TREAT	☐ NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	П.	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME		RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR		ENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF		SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION		OTHER	OTHER:
	COMPLETED OPERATIONS. Clearly shownge this well's name to Ute	-		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 09, 2014
NAME (PLEASE PRINT)	PHONE NUMI	BER	TITLE	
Rodrigo Jurado	435 722-5302	JLIN	Regulatory & Compliance S	рс
SIGNATURE N/A			<b>DATE</b> 10/3/2014	

Form 3160-3 (August 2007)

# RECEIVED

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMEN APR 1 8 2014

5. Lease Serial No. 1420H624745

			1420H624745	
APPLICATION FOR PERMIT	TO PRILLIPE RE	Marnal III	- 6. If Indian, Allottee or Tribe	Name
ia. Type of Work: DRILL REENTER	CONFID	Charges / marks	7. If Unit or CA Agreement, 1420H624650	Name and No.
			8. Lease Name and Well No.	= A
1b. Type of Well: Oil Well Gas Well O		de Zone Multiple Zone	UTE TRIBAL 36-06-	-7
Name of Operator     PETROGLYPH OPERATING CO., (Magai: editorial)	ED TROTTER organismink.com	en e	9. API Well No. 43 529	736
3a. Address P.O. BOX 607 ROOSEVELT, UT 84066	3b. Phone No. (inclu Ph: 435-789-412 Fx: 435-789-142	0	10. Field and Pool, or Explor ANTELOPE CREEK	atory
4. Location of Well (Report location clearly and in accord	ance with any State requ	irements.*)	11. Sec., T., R., M., or Blk. as	nd Survey or Area
At surface SENW 1794FNL 1341FW	<b>L</b> .	RECEIVED	Sec 36 T5S R4W Me	UBM
At proposed prod. zone SENW 1980FNL 1980FW	L	OCT 1 C 2044		
14. Distance in miles and direction from nearest town or post 21.11 Miles SOUTHWEST OF MYTON, UT		- 1	12. County or Parish DUCHESNE	13. State UT
15. Distance from proposed location to nearest property or	16. No. of Acres in I	EQIL, GAS & MINITED	17. Specing Unit dedicated to	this well
lease line, ft. (Also to nearest drig. unit line, if any) 1341	640.00	· ·		
<ol> <li>Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	19. Proposed Depth		20. BLM/BIA Bond No. on f	ile
33.02	6181 MD 6112 TVD		LPM4138153	
21. Elevations (Show whether DF, KB, RT, GL, etc. 6799 GL	22. Approximate date 06/15/2014	e work will start	23. Estimated duration 45 DAYS	
	24. Att	achments		
The following, completed in accordance with the requirements	of Onshore Oil and Gas (	Order No. 1, shall be attached to t	his form:	
1. Well plat certified by a registered surveyor.			ns unless covered by an existing	bond on file (see
<ol> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Sys SUPO shall be filed with the appropriate Forest Service Of</li> </ol>	tem Lands, the ffice).	Item 20 above).  5. Operator certification  6. Such other site specific infauthorized officer.	formation and/or plans as may be	e required by the
25. Signature (Electronic Submission)	Name (Printed/Typed LESTER FARM	) ISWORTH Ph: 435-722-	2531	Date 04/15/2014
Title DISTRICT MANAGER				
Approved by (Signature)	Name (Printed/Typed	<sup>)</sup> Jerry Kenczka	3	OCT 0 2 2014
Title Assistant Fleid Manager	Office VERN	IAL FIELD OFFICE		
Application approval does not warrant or certify the applicant h		le to those rights in the subject le ROVAL ATTACHED	ase which would entitle the appl	icant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or represents	make it a crime for any p tions as to any matter wi	person knowingly and willfully to thin its jurisdiction.	make to any department or age	ncy of the United
Additional Operator Remarks (see next page)			)	

Electronic Submission \$242342 verified by the BLM Well information System For PETROGLYPH OPERATING CO., INC., sent to the Vernal Committed to AFMSS for processing by ROBIN R. HANSEN on 04/21/2014 ()

**NOTICE OF APPROVAL** 

PPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*

Commence of the Commence of th



# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

VERNAL, UT 84078

(435) 781-4400



### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No: API No: PETROGLYPH OPERATING CO

UTE TRIBAL 36-06

43-013-52936

Location:

**SENW SEC 36 T068 R04W** 

Lease No: Agreement: 1420H624745 1420H624650

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER:

(435) 781-3420

# A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

### NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	<ul> <li>The Ute Tribe Energy &amp; Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.</li> </ul>
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	<ul> <li>Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy &amp; Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.</li> </ul>
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: bim_ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	<ul> <li>Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.</li> </ul>

Page 2 of 6 Well: UTE TRIBAL 36-06 9/29/2014

# SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All areas of disturbance (including surface pipelines) must have appropriate surface use agreements or approvals in place with the proper owner and/or agency before such action is started.
- The conditions of approval, as set forth by those owners and/or agencies, shall be adhered to.

Page 3 of 6 Well: UTE TRIBAL 36-06 9/29/2014

# DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

### SITE SPECIFIC DOWNHOLE COAs:

- 1. CBL will be run from TD to TOC
- 2. Cement for the surface casing will be circulated to the surface
- 3. Cement for long-string shall be circulated to 200' above the surface casing shoe

Variance Granted:

Requests for variances from O.O 2.E for Air Drilling are approved as written in APD

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the
  daily drilling report. Components shall be operated and tested as required by Onshore Oil &
  Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be
  performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be
  reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water
  is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM
  Vernal Field Office.

Page 4 of 6 Well: UTE TRIBAL 36-06 9/29/2014

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
   Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum
   Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
  notified when it is placed in a producing status. Such notification will be by written
  communication and must be received in this office by not later than the fifth business day
  following the date on which the well is placed on production. The notification shall provide, as a
  minimum, the following informational items:
  - o Operator name, address, and telephone number.
  - Well name and number.
  - o Well location (1/41/4, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).

Page 5 of 6 Well: UTE TRIBAL 36-06 9/29/2014

- The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
- The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
- o Unit agreement and/or participating area name and number, if applicable.
- o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field
  Office Petroleum Engineers will be provided with a date and time for the initial meter calibration
  and all future meter proving schedules. A copy of the meter calibration reports shall be
  submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API
  standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All
  measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted
  to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs
  first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be
  adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively
  sealed in accordance with Onshore Oil & Gas Order No. 3.

Page 6 of 6 Well: UTE TRIBAL 36-06 9/29/2014

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior
  approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
  days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
  before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office
  Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in
  order that a representative may witness plugging operations. If a well is suspended or
  abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent
  Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual
  plugging of the well bore, showing location of plugs, amount of cement in each, and amount of
  casing left in hole, and the current status of the surface restoration.

#### FORM 6

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

OCT 06 2014

### **ENTITY ACTION FORM**

Operator:

Petroglyph Operating Company

Operator Account Number: N 3800

Address:

P.O. Box 607

city Roosevelt

state UT

zip 84066

Phone Number: \_(435) 722-2531

#### Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301352936	Ute Tribal 36-06			36	58	4W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
В	99999	12352		10/5/201	4	10/	9/14

Comments: Please add well to existing Ute Tribal 31-04 Tank Battery.

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301352938	Ute Tribal 36-12			36	58	4W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
В	99999	12352		10/6/201	4	(0/	9114

Comments: Please add well to existing Ute Tribal 31-04 Tank Battery.

### Well 3

API Number	Well Name		QQ Sec Twp		Rng County		
Action Code	Current Entity New Entity Number Number		Spud Date		Entity Assignment Effective Date		
omments:							

### **ACTION CODES:**

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

Rodrigo Jurado

Name (Please Print)

Signature // Regulatory Compliance Spc

10/6/2014

Date

### BLM - Vernal Field Office - Notification Form

Operator <u>Petroglyph Operating</u> Rig Name/# <u>Craig's /Pro Petro</u>
Submitted By Rodrigo Jurado Phone Number 435-722-5302
Well Name/Number <u>Ute Tribal 36-06</u> ~ E₹
Qtr/Qtr <u>SENE</u> Section <u>36</u> Township <u>5S</u> Range 4W SENW
Lease Serial Number <u>14-20-H62-4745</u>
API Number43-013-52936
<u>Spud Notice</u> – Spud is the initial spudding of the well, not drilling
out below a casing string.
Date/Time AM PM
Cosing Diago report time engine run starte not comenting
<u>Casing</u> – Please report time casing run starts, not cementing
times.
Surface Casing
Intermediate Casing
Production Casing
Liner
Other
Date/Time <u>10/7/2014</u> <u>10:00</u> AM ☐ PM ⊠
BOPE
Initial BOPE test at surface casing point
BOPE test at intermediate casing point
30 day BOPE test
Other
Date/Time AM PM
Remarks We plan to run +/- 500' of 8-5/8" J-55 Surface Casing at

the time indicated. (Sent 10/7/2014 @ 7:45 A.M.)

	STATE OF UTAH		FORM 9
1	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MINI		5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H624745
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE		
	posals to drill new wells, significantly de reenter plugged wells, or to drill horizont n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	CONFINE	NTINI	8. WELL NAME and NUMBER: Ute Tribal 36-06
2. NAME OF OPERATOR: PETROGLYPH OPERATING O	CO	HIML	9. API NUMBER: 43013529360000
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste		PHONE NUMBER: 208 685-7685 Ext	9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1794 FNL 1341 FWL QTR/QTR, SECTION, TOWNSI Qtr/Qtr: SENW Section:	COUNTY: DUCHESNE STATE: UTAH		
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
,	ACIDIZE [	ALTER CASING	CASING REPAIR
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
10/6/2014	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN [	FRACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
		VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show all Please change this well's		
			RECEIVED
			OCT <b>06</b> 2014
			DIV. OF OIL, GAS & MINING
NAME (PLEASE PRINT) Rodrigo Jurado	<b>PHONE NUMBE</b> 435 722-5302	R TITLE Regulatory & Compliance S	Эрс
SIGNATURE N/A		DATE 10/3/2014	



### CONFIDENTIAL

### **Petroglyph Operating Well Name Change**

Rodrigo Jurado rjurado@pgei.com>

Mon. Oct 6, 2014 at 11:29 AM

To: "Carol Daniels (caroldaniels@utah.gov)" <caroldaniels@utah.gov>, "Alexis Heufner (alexishuefner@utah.gov)" <alexishuefner@utah.gov>

Cc: Rachel Medina <rachelmedina@utah.gov>

Carol & Alexis.

On Friday I submitted 3 sundry notices for changing some well names. We recently received BLM Approved APD's for our Ute Tribal 36-06, 36-07 & 36-12. Because these wells are in T 5 South, R 4 West, we will be adding and E4 to the end of the current name. The wells in question are:

Ute Tribal 36-06,

API# 43-013-52936

New Well Name: Ute Tribal 36-06-E4

Ute Tribal 36-07.

API# 43-013-52930

New Well Name: Ute Tribal 36-07-E4

Ute Tribal 36-12.

API# 43-013-52938

New Well Name: Ute Tribal 36-12-E4

Copies of the sundry notices are attached. One well, the Ute Tribal 36-06 has already been spudded and I will be submitting the spud sundry later today. Please process these three sundry notices and update your records accordingly so we can get as much of the regulatory paperwork under one name as possible. This will hopefully avoid confusion.

Thank you both for your help.

# Rodrigo Jurado

### Petroglyph Operating Company, Inc.

**Regulatory Compliance Specialist** 

P.O. BOX 607

Roosevelt, UT 84066

OFFICE: (435) 722-5302

MOBILE: (435) 609-3239

FAX:

(435) 722-9145

The contents of this e-mail and any attachments are intended solely for the use of the named addressee(s) and may contain confidential and/or privileged information. Any unauthorized use, copying, disclosure, or distribution of the contents of this e-mail or attachments is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender immediately and destroy all copies of the communication and any attachments.

### 3 attachments

- Ute Tribal 36-12 DOGM Sundry\_Name Change 2014-10-3.pdf
- Ute Tribal 36-07 DOGM Sundry\_Name Change 2014-10-3.pdf
- Ute Tribal 36-06 DOGM Sundry\_Name Change 2014-10-3.pdf

	STATE OF UTAH	DOE0		FORM 9
ı	DEPARTMENT OF NATURAL RESOU DIVISION OF OIL, GAS, AND M		3	5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H624745
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE			
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	posals to drill new wells, significant reenter plugged wells, or to drill hori n for such proposals.	ly deep zontal l	pen existing wells below laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: UTE TRIBAL 36-06-E4
2. NAME OF OPERATOR: PETROGLYPH OPERATING C	50			9. API NUMBER: 43013529360000
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste	500 , Boise, ID, 83703		DNE NUMBER: 3 685-7685 Ext	9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1794 FNL 1341 FWL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SENW Section: 3	HP, RANGE, MERIDIAN: 36 Township: 05.0S Range: 04.0W M	eridian:	: U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDIC	ATE N	ATURE OF NOTICE, REPOR	T, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
	ACIDIZE		ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	$\Box$	CHANGE TUBING	CHANGE WELL NAME
11/5/2014				
	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	L DEEPEN	<b>✓</b> F	FRACTURE TREAT	☐ NEW CONSTRUCTION
	OPERATOR CHANGE	L F	PLUG AND ABANDON	L PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	F	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR		VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF		SI TA STATUS EXTENSION	APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION		OTHER	OTHER:
12 DESCRIPE PROPOSED OR				onthe volumes etc
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly sho Please see attached.	-	rtment details including dates, d	Accepted by the
	r loade dee attached.			Utah Division of
				Oil, Gas and Mining
				Date: v
				By: Devember 12, 2014
NAME (DI EASE DRINT)	DHONE MIN	ADED	TITLE	
NAME (PLEASE PRINT) Rodrigo Jurado	<b>PHONE NUM</b> 435 722-5302	NDEK	TITLE Regulatory & Compliance S	рс
SIGNATURE N/A			<b>DATE</b> 11/4/2014	

Sundry Number: 57441 API Well Number: 43013529360000

STATE OF UTAH FORM 9

1	5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H624745						
SUNDRY	NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe				
Do not use this form for proposals to drill no drill horizontal la	7. UNIT or CA AGREEMENT NAME: 1420H624650						
1. TYPE OF WELL OIL WELL	GAS WELL OTHER		8. WELL NAME and NUMBER: Ute Tribal 36-06-E4				
<ol> <li>NAME OF OPERATOR:</li> <li>Petroglyph Operating Con</li> </ol>	npany Inc.		9 API NUMBER: 4301352636				
3. ADDRESS OF OPERATOR: P.O. Box 607	Roosevelt STATE UT ZIP 84	PHONE NUMBER: (435) 722-2531	10. FIELD AND POOL, OR WILDCAT: Antelope Creek				
4 LOCATION OF WELL FOOTAGES AT SURFACE: 1794'	FNL, 1341' FWL		соинту: Duchesne				
QTR/QTR, SECTION, TOWNSHIP, RAN-	ge, meridian: SENW 36 5S 4W	, n	STATE: UTAH				
	ROPRIATE BOXES TO INDICATE		RT, OR OTHER DATA				
TYPE OF SUBMISSION		TYPE OF ACTION					
✓ NOTICE OF INTENT	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION				
(Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL				
Approximate date work will start:	CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDON				
11/5/2014	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR				
<b></b>	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE				
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL				
Date of work completion:	CHANGE WELL STATUS	PRODUCTION (START/RESUME)	WATER SHUT-OFF				
suc of non-completion.	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	OTHER:				
	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION					
12. DESCRIBE PROPOSED OR CO	OMPLETED OPERATIONS. Clearly show all pert	inent details including dates, depths, volum	nes, etc.				
On or around 11/5/2014, depending on equipment availability, Petroglyph Operating intends to perforate and fracture treat the following: 4450-59, 4480-91, 4596-99, 4603-06, 4624-27, 4743-46, 4754-70, 4815-17, 4848-50, 4852-54, 4951-60, 5008-14, 5016-22, 5132-38, 5149-60, 5201-05, 5216-19, 5227-29, 5238-40, 5245-47, 5263-70, 5331-37, 5384-86, 5397-5400, 5406-10, 5436-38, 5512-20, 5601-05, 5668-76, 5719-21, 5917-19, 5922-24, 5960-62, 5981-86, 5992-94, 5998-6000, 6031-34, 6124-28, 6177-80, 6187-91, 6203-05, 6209-11, 6248-52 & 6286-87. We will perforate at 4 shot per foot and isolate zones using Halliburton 8K Composite Plugs. We plan complete the following stages: 6,124-6,289: 28,000 Gals of fluid containing 50,000#'s of sand, 5,917-6,034: 28,000 Gals of fluid containing 50,000#'s of sand, 5,601-5,721: 22,400 Gals of fluid containing 40,000#'s of sand, 5,331-5,438: 22,400 Gals of fluid containing 40,000#'s of sand, 5,331-5,438: 22,400 Gals of fluid containing 50,000#'s of sand, 4,951-5,022: 42,000 Gals of fluid containing 65,000#'s of sand, 4,951-5,022: 42,000 Gals of fluid containing 75,000#'s of sand, 4,743-4,854: 33,600 Gals of fluid containing 25,000#'s of sand, 4,743-4,854: 33,600 Gals of fluid containing 25,000#'s of sand, 4,596-4,627: 14,000 Gals of fluid containing 25,000#'s of sand, 1,502: 42,000 Gals of fluid containing 25,000#'s of sand, 4,596-4,627: 14,000 Gals of fluid containing 25,000#'s of sand, 4,596-4,627: 14,000 Gals of fluid containing 25,000#'s of sand, 4,596-4,627: 14,000 Gals of fluid containing 25,000#'s of sand, 4,596-4,627: 14,000 Gals of fluid containing 25,000#'s of sand, 4,596-4,627: 14,000 Gals of fluid containing 25,000#'s of sand, 4,596-4,627: 14,000 Gals of fluid containing 25,000#'s of sand, 4,596-4,627: 14,000 Gals of fluid containing 25,000#'s of sand, 4,596-4,627: 14,000 Gals of fluid containing 25,000#'s of sand, 4,596-4,627: 14,000 Gals of fluid containing 25,000#'s of sand, 4,596-4,627: 14,000 Gals of fluid containing 40,000#'s of sand, 4,596-4,627: 14,000 Gals of fluid cont							
NAME (PLEASE PRINT) Rodrigo Ju	urado	TITLE Regulatory Com	pliance Specialist				
SIGNATURE /		DATE 10/31/2014					

(This space for State use only)

Sundry Number: 57441 API Well Number: 43013529360000

### AFFIDAVIT OF NOTICE

State of Utah	)
	) ss
County of Kane	)

I, Nicole Colby, the affiant herein, being of lawful age and duly sworn upon her oath deposes and states as follows:

Nicole Colby is the Manager of Land and Regulatory Compliance for Petroglyph Energy, Inc., an Idaho Corporation, with headquarters located at 960 Broadway Avenue, Suite 500, Boise, ID 83706, and is duly authorized to make this Affidavit on behalf of said corporation.

Petroglyph Energy, Inc. has submitted notices to commingle production from the Wasatch and Green River formations in the following well lying within the boundaries of the Antelope Creek Plan of Cooperative Development – BIA Lease 14-20-H62-4745:

### UTE TRIBAL 36-06-E4

This Affidavit is made in accordance with Utah's Oil, Gas and Mining regulation R649-3-22. As operator, Petroglyph Energy, Inc. is the only owner of contiguous oil and gas leases overlying the pool and no notice to other parties is necessary.

Petroglyph Energy, Inc.

Nicole Colby

State of Utah ) ) ss County of Kane )

The above and foregoing Affidavit was subscribed and sworn to before me on the 4<sup>th</sup> day of November, 2014, by Nicole Colby.

Witness my hand and official seal.

(SEAL)

Notary Public

JAMES B. ADAIR

Notary Filtude

State Or Utan

My Commission Expires June 19, 2015

Commission No. 610727

Sundry Number: 57441 API Well Number: 43013529360000

T5S R3W	III Exploration II LP WI 100%	PETROGLYPH ANTELOPE CREEK DUCHESNE COUNTY, UTAH Application for Commingling Ute Tribal 36-06-E4
Linn Operating, Inc. WI 100% T5S R4W	Ute Tribal 36-06-E4  36  III Exploration II LP WI 100%	1 inch = 1500 feet N P
	Ute Tribal 1-35-54  Linn Operating, Inc. 35  WI 100%  Ute Tribal 9-35-54	

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE	nee .	FORM 9
ı	DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H624745
	RY NOTICES AND REPORTS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
Do not use this form for pro current bottom-hole depth, FOR PERMIT TO DRILL form	posals to drill new wells, significantly reenter plugged wells, or to drill horizo n for such proposals.	deepen existing wells below ontal laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: UTE TRIBAL 36-06-E4
2. NAME OF OPERATOR: PETROGLYPH OPERATING O	00		<b>9. API NUMBER:</b> 43013529360000
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste	500 , Boise, ID, 83703	PHONE NUMBER: 208 685-7685 Ext	9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1794 FNL 1341 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 36 Township: 05.0S Range: 04.0W Mer	idian: U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
NOTICE OF INTENT Approximate date work will start: 11/18/2014	CHANGE TO PREVIOUS PLANS  CHANGE WELL STATUS	☐ ALTER CASING ☐ CHANGE TUBING  ✓ COMMINGLE PRODUCING FORMATIONS	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN ☐ OPERATOR CHANGE	FRACTURE TREAT  PLUG AND ABANDON	NEW CONSTRUCTION PLUG BACK
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR	RECLAMATION OF WELL SITE  SIDETRACK TO REPAIR WELL  VENT OR FLARE	RECOMPLETE DIFFERENT FORMATION  TEMPORARY ABANDON  WATER DISPOSAL
DRILLING REPORT Report Date:	☐ WATER SHUTOFF  ☐ WILDCAT WELL DETERMINATION	SI TA STATUS EXTENSION  OTHER	APD EXTENSION OTHER:
Petroglyph Operating oil and gas production the well referenced the well bore. notifications in accordance in acco	COMPLETED OPERATIONS. Clearly showing Company, Inc. requests poin from the Wasatch and Grill above. Mineral Ownership Petroglyph Operating has mordance with Utah's Oil, Gasase see the attached Affidav	permission to commingle een River Formations on is the same throughout nade all necessary s, and Mining regulation	Approved by the
NAME (PLEASE PRINT) Rodrigo Jurado	<b>PHONE NUMB</b> 435 722-5302	BER TITLE Regulatory & Compliance S	рс
SIGNATURE N/A		DATE 11/4/2014	

### AFFIDAVIT OF NOTICE

State of Utah	)
	) ss
County of Kane	)

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Petroglyph Energy, Inc. has submitted notices to commingle production from the Wasatch and Green River formations in the following well lying within the boundaries of the Antelope Creek Plan of Cooperative Development – BIA Lease 14-20-H62-4745:

### UTE TRIBAL 36-06-E4

This Affidavit is made in accordance with Utah's Oil, Gas and Mining regulation R649-3-22. As operator, Petroglyph Energy, Inc. is the only owner of contiguous oil and gas leases overlying the pool and no notice to other parties is necessary.

Petroglyph Energy, Inc.

Nicole Colby

State of Utah ) ss County of Kane )

The above and foregoing Affidavit was subscribed and sworn to before me on the 4<sup>th</sup> day of November, 2014, by Nicole Colby.

Witness my hand and official seal.

(SEAL)

Notary Public

JAMES B. ADAIR
Notery Closed
State Dr Utah
My Commission Expires Jone 19, 2015
Commission No. 610727

T5S R3W	III Exploration II LP WI 100%	PETROGLYPH ANTELOPE CREEK DUCHESNE COUNTY, UTAH Application for Commingling Ute Tribal 36-06-E4 38-06114
Linn Operating, Inc. WI 100% T5S R4W	Ute Tribal 36-06-E4  36  III Exploration II LP WI 100%	1 inch = 1500 feet
	Ute Tribal 1-35-54  Linn Operating, Inc. 35 WI 100%  Ute Tribal 9-35-54	

	STATE OF UTAH			FORM 9
1	DEPARTMENT OF NATURAL RESO DIVISION OF OIL, GAS, AND		<b>i</b>	5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H624745
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE			
	posals to drill new wells, significal reenter plugged wells, or to drill ho n for such proposals.			7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: UTE TRIBAL 36-06-E4
2. NAME OF OPERATOR: PETROGLYPH OPERATING C	co			<b>9. API NUMBER:</b> 43013529360000
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste	500 , Boise, ID, 83703		NE NUMBER: 3 685-7685 Ext	9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1794 FNL 1341 FWL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SENW Section: 3	HIP, RANGE, MERIDIAN: 36 Township: 05.0S Range: 04.0W	Meridian:	U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDI	ICATE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE ✓ PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION  COMPLETED OPERATIONS. Clearly Strict fist production for this w	C C C C C C C C C C C C C C C C C C C		CASING REPAIR  CHANGE WELL NAME  CONVERT WELL TYPE  NEW CONSTRUCTION  PLUG BACK  RECOMPLETE DIFFERENT FORMATION  TEMPORARY ABANDON  WATER DISPOSAL  APD EXTENSION  OTHER:  DEPTHS, VOLUMES, etc.  Accepted by the Utah Division of Oil, Gas and Mining  FOR RECORD ONLY  December 10, 2014
NAME (PLEASE PRINT)	PHONE NU	JMBER	TITLE	
Rodrigo Jurado  SIGNATURE	435 722-5302		Regulatory & Compliance S  DATE	рс
N/A			12/8/2014	

Sundry Number: 60959 API Well Number: 43013529360000

	STATE OF UTAH			FORM 9
l ı	DEPARTMENT OF NATURAL RESC DIVISION OF OIL, GAS, AND		i	5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H624745
SUNDR	Y NOTICES AND REPOR	TS ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
	posals to drill new wells, significa reenter plugged wells, or to drill ha n for such proposals.			7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: UTE TRIBAL 36-06-E4
2. NAME OF OPERATOR: PETROGLYPH OPERATING C	0			<b>9. API NUMBER:</b> 43013529360000
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste	500 , Boise, ID, 83703		NE NUMBER: 685-7685 Ext	9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1794 FNL 1341 FWL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	IIP, RANGE, MERIDIAN: 36 Township: 05.0S Range: 04.0W	Meridian:	U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INC	DICATE NA	ATURE OF NOTICE, REPOR	T, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
	ACIDIZE		LITER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	□ c	CHANGE TUBING	CHANGE WELL NAME
Approximate date work will start:	CHANGE WELL STATUS	□ c	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	<b>√</b> F	RACTURE TREAT	NEW CONSTRUCTION
12/2/2014	OPERATOR CHANGE	□ р	LUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME		ECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	□ s	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR		ENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF		I TA STATUS EXTENSION	APD EXTENSION
nopon suio.	WILDCAT WELL DETERMINATION		ATUED	OTHER.
			DIHER	UINER:
	COMPLETED OPERATIONS. Clearly s Please see attache	ed.		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 23, 2015
NAME (PLEASE PRINT) Rodrigo Jurado	<b>PHONE N</b> 435 722-5302	IUMBER	TITLE Regulatory & Compliance S	рс
SIGNATURE N/A			<b>DATE</b> 2/18/2015	

RECEIVED: Feb. 18, 2015

Sundry Number: 60959 API Well Number: 43013529360000

STATE OF UTAH FORM 9 DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4745 6. IF INDIAN, ALLOTTEE OR TRIBE NAME SUNDRY NOTICES AND REPORTS ON WELLS Ute Indian Tribe 7. UNIT or CA AGREEMENT NAME Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. 14-20-H62-4650 8. WELL NAME and NUMBER 1. TYPE OF WELL OIL WELL 🗸 GAS WELL **OTHER** Ute Tribal 36-06-E4 9. API NUMBER: 2. NAME OF OPERATOR: 4301352936 Petroglyph Operating Company Inc. 10 FIELD AND POOL OR WILDCAT 3. ADDRESS OF OPERATOR PHONE NUMBER Antelope Creek UT 84066 (435) 722-2531 P.O. Box 607 Roosevelt 4. LOCATION OF WELL FOOTAGES AT SURFACE: 1794' FNL, 1341' FWL COUNTY: Duchesne QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW **5S** 4W U STATE UTAH CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 11 TYPE OF SUBMISSION TYPE OF ACTION REPERFORATE CURRENT FORMATION ACIDIZE DEEPEN NOTICE OF INTENT ALTER CASING FRACTURE TREAT SIDETRACK TO REPAIR WELL (Submit in Duplicate) TEMPORARILY ABANDON Approximate date work will start: CASING REPAIR NEW CONSTRUCTION TUBING REPAIR CHANGE TO PREVIOUS PLANS OPERATOR CHANGE VENT OR FLARE CHANGE TUBING PLUG AND ABANDON WATER DISPOSAL SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK (Submit Original Form Only) WATER SHUT-OFF PRODUCTION (START/RESUME) CHANGE WELL STATUS Date of work completion: COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE OTHER: 12/2/2014 CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. On 10/29/2014 Petroglyph Operating ran GR/CBL and found ETOC @ 194'. On 11/12/2014 we then perforated the following: 4450-59, 4480-91, 4596-99, 4603-06, 4624-27, 4743-46, 4754-70, 4815-17, 4848-50, 4852-54, 4951-60, 5008-14, 5016-22,  $5132-38,\ 5149-60,\ 5201-05,\ 5216-19,\ 5227-29,\ 5238-40,\ 5245-47,\ 5263-70,\ 5331-37,\ 5384-86,\ 5397-5400,\ 5406-10,\ 5436-38,\ 5406-38,\ 54$ 5512-20, 5601-05, 5668-76, 5719-21, 5917-19, 5922-24, 5960-62, 5981-86, 5992-94, 5998-6000, 6031-34, 6124-28, 6177-80, 6187-91, 6203-05, 6209-11, 6248-52 & 6286-87. We isolated and fracture treated the following intervals: 6.124'-6.287': 866 Bbls of fluid containing 50,120#'s of sand, 5,917'-6,034': 621 Bbls of fluid containing 49,880#'s of sand,

5512-20, 5601-05, 5668-76, 5719-21, 5917-19, 5922-24, 5960-62, 5981-86, 5992-94, 5998-6000, 6031-34, 6124-28, 6177-80, 6187-91, 6203-05, 6209-11, 6248-52 & 6286-87. We isolated and fracture treated the following intervals: 6,124'-6,287': 866 Bbls of fluid containing 50,120#'s of sand, 5,917'-6,034': 621 Bbls of fluid containing 49,880#'s of sand, 5,601'-5,721': 630 Bbls of fluid containing 40,000#'s of sand, 5,331'-5,438': 480 Bbls of fluid containing 25,000#'s of sand, 5,132'-5,270': 755 Bbls of fluid containing 64,780#'s of sand, 4,951'-5,022': 894 Bbls of fluid containing 74,920#'s of sand, 4,743'-4,854': 709 Bbls of fluid containing 60,000#'s of sand, 4,596'-4,627': 449 Bbls of fluid containing 24,860#'s of sand, 4,450'-4,491': 549 Bbls of fluid containing 30,120#'s of sand. Isolation plugs used were Halliburton 8K Composite Plugs, fluid used was Dyna 22 LP 18# gelled fluid, sand used was 20/40 Mesh Premium White Sand and guns used were Titan 3-1/8", containing 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 4 SPF @ 120\* Phased. All plugs were drilled out and cleaned out to PBTD, 6,680'. The well was swabbed until a good oil cut was see, then ran a pump on 12/2/2014 and put to pump.

NAME (PLEASE PRINT) Rodrigo Jurado	TITLE	Regulatory Compliance Specialist
SIGNATURE ////	DATE	2/18/2015

(This space for State use only)

		,		RTMEN	OF NAT	UTAH						(hi	ghlight ch		FORM 8
		L	JIVIS	ION OI	- OIL, G	SAS AND	MININ	G						gnation and s 162-4745	ERIAL NUMBER:
WEL	L COI	MPLE1	ION	OR F	RECON	//PLET	ION RI	EPOR	T ANI	LOG				LLOTTEE OR TR	IBE NAME
1a. TYPE OF WELL	.:	O W	ELL G	$\overline{Z}$	BAS D	DRY		отн	ER			1		GREEMENT NA	ME
b. TYPE OF WORK												L		162-4650 and NUMBER:	
WELL Z	HORIZ. LATS.		EEP- [		NTRY	DIFF. RESVI	R. 🗌	отн	ER					oal 36-06-E	Ξ4
2. NAME OF OPER. Petroglyph		ating Co	mpar	ny, Inc.								1	PI NUMBER 130135		
3. ADDRESS OF OF P.O. Box 60			ary R	ooseve	t	STATE UT	ZIP 840	066		NUMBER: 35) 722-2	2531			ool, or wildo e Creek	CAT
4. LOCATION OF W AT SURFACE:			41 EU	۸/۱								11.	OTR/QTR, S MERIDIAN:	SECTION, TOWN	ISHIP, RANGE,
												SE	ENW	36 5S	4W U
AT TOP PRODU	CING INTE	RVAL REPO	RTED BI	elow: 1	930' FN	L 1932' I	FWL						To the second		
AT TOTAL DEPT	⊞: 197	7' FNL 1	1954'	FWL									COUNTY Ouchesi	1	13. STATE UTAH
14. DATE SPUDDEI 10/5/2014	D:	15. DATE T			16. DATE 0	OMPLETED:	,	ABANDONI	ED 🔲	READY TO F	RODUCI			ATIONS (DF, RKE 12' RKB	3, RT, GL):
18. TOTAL DEPTH:	MD 6	,810	201	,	BACK T.D.:		0	20. IF N	MULTIPLE C	OMPLETIONS	S, HOW N	ANY?*	21. DEPTH	HBRIDGE ME	)
	TVD 6					TVD 6,62	2		·				PLU	G SET:	D
22. TYPE ELECTRIC									23. WAS WEL	L CORED?		NO	<b>√</b> ] YE	s 🗍 (Sub	mit analysis)
ACTR, SDD	SN, Bo	rehole \	√olun	ne Plot,	Cemen	t Bond L	og		WAS DST		′?	NO NO	✓ YE	S (Sub	emit report) emit copy)
24. CASING AND L	INER RECO	ORD (Report	all strin	gs set in we	II)										
HOLE SIZE	SIZE/G	RADE	WEIGH	IT (#/ft.)	TOP (MI	о) вот	TOM (MD)		EMENTER PTH	CEMENT T NO. OF SA		SLUI VOLUM		CEMENT TOP *	* AMOUNT PULLED
26	16	J-55	7	5	0		73							0	Conductor
12.25	8.625	J-55	2	!4	0		543			G	350	7		0	
7.875	5.5	J-55	15	5.5	0	6	5,802			G	940	29	8	194	CBL
			***************************************												
								polinis transional trainini di dicen							
25. TUBING RECOR	RD			•											
SIZE	<del></del>	H SET (MD)	PAC	KER SET (N	1D)	SIZE	DEPTH	SET (MD)	PACKE	R SET (MD)		SIZE	DE	PTH SET (MD)	PACKER SET (MD)
2.875	6	,317	<u> </u>								<u> </u>				<u> </u>
26. PRODUCING IN	TERVALS			*************************						RATION REC					
FORMATION			(MD)	BOTTO		TOP (TVD)		M (TVD)		L (Top/Bot - N		SIZE	NO. HOLE		RATION STATUS
(A) Green Riv	/er	4,4	150	6,0	34	4,393	5,9	76	4,450	6,	287	0.42	756	Open 🗸	Squeezed
(B) Wasatch		6,	124	6,2	287	6,066	6,2	29						Open	Squeezed
(C)														Open	Squeezed
(D)														Open	Squeezed
28. ACID, FRACTUR	RE, TREAT	MENT, CEME	NT SQL	JEEZE, ETC											
DEPTH	INTERVAL		T	***************************************			ALEX CONSCIONATION OF PERSON	AMO	DUNT AND T	YPE OF MAT	ERIAL				
4,450'-6,034	ŧ		5.0	87 Rhis	of Dyn:	afrac HT	25 Gell	ed Flui	d conta	ining 369	560#	t's of	20/40 N	lesh Sand	
6,124'-6,287			_			ac HT 2						*******			
0,124-0,207			1000	7 0013 0	Dynan	do III Z	3 301100	riaia	oorrain	119 00,12	_0,, 0	J. 4. ()	10 11100	CI QUITA	
29. ENCLOSED AT	TACHMENT	rs:	<b></b>											30. WE	L STATUS:
P		•													
power)		CHANICAL LO		D CEMENT	VERIFICATI		GEOLOGI CORE AN	C REPORT	Lamand	DST REPORT OTHER: <u>U</u>			TIONAL SU	RVEY	POW

24	BUTT	141	PRO	in	CT	10
31.	INCL	ML.	PKL	ນບເ	,,,,	I U I

### INTERVAL A (As shown in item #26)

12/3/2014		TEST DATE: 2/19/2015	5	HOURS TESTED	o: 24	TEST PRODUCTION RATES: →	OIL - BBL: 92	GAS - MCF: 92	WATER – BBL: 44	PROD. METHOD: Rod Pump
сноке size: 32/64	TBG. PRESS.	csg, press.	API GRAVITY 39.90	BTU – GAS 1	GAS/OIL RATIO 1,000	24 HR PRODUCTION RATES: →	OIL – BBL: 92	gas – mcf: 92	WATER – BBL: 44	interval status: Open
				INT	ERVAL B (As shor	wn in item #26)				
DATE FIRST PR	RODUCED:	TEST DATE:		HOURS TESTED	);	TEST PRODUCTION RATES: →	OIL BBL:	GAS MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:
		<del></del>	······································	INT	ERVAL C (As sho	wn in item #26)	<del></del>		- <del></del>	
DATE FIRST PR	RODUCED:	TEST DATE:		HOURS TESTED	):	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - 88L:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:
***************************************		<u></u>		INT	ERVAL D (As shor	wn in item #26)				
DATE FIRST PR	RODUCED:	TEST DATE:		HOURS TESTED	);	TEST PRODUCTION RATES: →	OIL BBL:	GAS MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS MCF:	WATER - BBL:	INTERVAL STATUS:

#### 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval

33. SUMMARY OF POROUS ZONES (Include Aquifers):

#### Used for Fuel

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth
				Mahogany Shale	2,880
				Lower Parachute Creek	3,168
				Garden Gulch	3,544
				Middle Garden Gulch	3,950
				Lower Garden Gulch	4,427
				Douglas Creek	4,568
				Lower Douglas Creek	4,936
				Castle Peak	5,485
				Uteland Butte	5,913
				Wasatch	6,174

<sup>35.</sup> ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from	m ali avail	able records.
NAME (PLEASE PRINT) Rodrigo Jurado	TITLE	Regulatory Compliance Specialist
SIGNATURE	DATE	3/2/2015

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth

34. FORMATION (Log) MARKERS:

· drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

Send to: Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

<sup>\*</sup> ITEM 20: Show the number of completions if production is measured separately from two or more formations.

<sup>\*\*</sup> ITEM 24: Cement Top — Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

FORM 7

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

	/ 31 2 3 3 7 1	L	O1 147	110101	E 1 ( E O .	001101	
DIVI	SION	OF	OIL,	GAS	AND	MINII	10

		PORT		ENCOUNT	LNL	D DOKIN	G DRILLING
Well name and	d number: <u>Ute T</u>	ribal 36-0	6-E4	***************************************	av avanasti atridasti suseti		
API number: _	1301352936			***************************************			
Well Location:	QQ SENW Sect	ion <u>36</u>	_ Township <u>5</u>	SRange	4W	County D	uchesne
Well operator:	Petroglyph Ope	erating Co	ompany, Inc.				
Address:	P.O. Box 607						
	city Roosevelt		state UT	zip 84066	djeha	Phone:	(435) 722-2531
Drilling contrac	ctor: Pro Petro			na va e wa			
Address:	1422 East 1500	) South		****	_		
	city Vernal		state UT	zip 84078	-	Phone: _	(435) 789-1735
Water encount	ered (attach add	litional pa	ges as needed	d):			
	DEPT	Ή		VOLUME			QUALITY
-	FROM	ТО	(FLC	OW RATE OR H	(EAD)		(FRESH OR SALTY)
-	0	540		0	***************************************		No Water Encountered
				<del></del>			
ļ.				<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			
				<u></u>			
<u> </u>							
Formation tops (Top to Bottom)			nd in the sum and the classified on this fact that the classified the classified and the interpretability of the	. 2			
(TOP to Dottom	4						
	yangi see		surra a servenen sykensus eta usus almoen pala ora di eta umus eryanika sikonere			any pananakan muoyinkii pyydeksiokii maetii akkii kiikii kiikii miniistiinkii toi kensikusta	
	10 _			The state of the s	nimenga/wentageneeniaans		12
•						opy of the r	report to this form.
-	hat this report is tru	1				Daniels	. Camadianaa Ca salata
NAME (PLEASE PRIN	Rodrigo Jurao	10	E 20 Card Mark Gast Andrew Card Andrew Town will survive a 20 Card Andrew Card	aderica de la constitución de la			y Compliance Specialist
SIGNATURE		<del></del>			DATE	10/10/201	4

(5/2000)

1390.00 1474.00 1558.00 1643.00	968.00 1053.00 1139.00 1221.00 1306.00	.00 593.00 716.00 800.00 884.00	Measured Depth FT
9.67 10.72 12.29 13.10	3.96 5.01 7.43 7.70 8.39	.00 .22 1.36 2.42 3.03	incl Angle Deg
97.41 98.25 99.04 102.68	107.65 106.68 98.42 100.47 97.32	.00 146.89 110.20 102.07 109.32	Drift Direction Deg
1386.32 1468.99 1551.30 1634.23	967.69 1052.42 1137.91 1219.20 1303.36	.00 593.00 715.99 799.94 883.84	True Vertical Depth
-14.23 -16.26 -18.78 -22.32	-5.09 -7.05 -8.94 -10.71 -12.54	00 95 -1.66 -2.37 -3.48	N-S FT
64.40 79.13 95.69 114.02	13.48 19.83 28.93 39.58 51.33	.00 .62 2.12 4.79 8.62	E-W
65.87 80.62 97.26 115.87	14.34 20.99 30.26 41.00 52.82	9.23 9.23	Vertical Section FT
65.96 80.78 97.52 116.19	14.41 21.05 30.28 41.00 52.84	00 1.14 2.69 5.35 9.29	C L Distance FT
102.46 101.61 101.11 101.08	110.69 109.56 107.17 105.14 103.73	.00 146.89 127.97 116.33 111.96	CLOSURE ce Direction Deg
1.52 1.26 1.34	1.11 1.24 2.99 .47	.00 .04 .97 1.30 .83	Dogleg Severity Deg/100



Location: Sec 36 T5S, R4W Lease/Well: Ute Tribal 36-06-E4 Company: Petroglyph Job Number: UT141445

File name: C:\WINSERVE\UT141445.SVY

Rig Name: Capstar 334

G.L. or M.S.L.: 6799

Minimum Curvature Method Vertical Section Plane 105.30 Vertical Section Referenced to Wellhead Rectangular Coordinates Referenced to Wellhead

WINSERVE SURVEY CALCULATIONS

State/Country: UTAH

Grid: True Declination: 10.97

Curve Name: Actual Date/Time: 15-Oct-14 / 01:02 Page 2
Actual File: C:\WINSERVE\UT141445.SVY

	4584.00 4675.00	4401.00 4493.00	4219.00 4310.00	4127.00	3945.00 4036.00	3854.00	3762.00	3671.00	3489.00	3398.00	3306.00	3215.00	3124.00	3033.00	2941.00	2850.00	2759.00	2668.00	2577.00	2486.00	2401.00	2317.00	2233.00	2148.00	2064.00	1980.00	1896.00	1811.00	1727.00	7	Measured Depth
	2.81	3.87 3.34	4.48 3.47	5.71	6.59	6.90	7.65	9.03 8.07	10.30	11.29	11.03	11.07	10.20	11.26	12.02	12.04	12.92	10.81	10.94	12.66	12.92	13.01	12.83	12.88	12.64	12.96	13.23	13.58	13.24	Deg	Incl Angle
	120.13 103.61	98.29 103.83	99.92 102.11	95.61	103.26	112.88	108.53	109.04	109.35	110.07	109.14	107.91	103.91	99.87	97.81	96.58	99.04	103.39	102.33	102.16	103.34	103.47	103.61	102.07	102.77	100.49	102.82	102.64	103.44	Deg	Drift
	4527.14 4618.02	4344,45 4436 27	4162.86 4253.64	4071.22	3890.28	3799.91	3708.65	3618.51	3438.82	3349.43	3259.17	3169.85	3080.42	2991.01	2900.90	2811.90	2723.05	2634.00	2544 63	2455.56	2372.67	2290.81	2208.93	2126.06	2044,14	1962.23	1880.41	1797.73	1716.02	Depth	True
)	-138.49 -140.19	-135.65	-133,44 -134.63	-131.48 -132.37	-129.83	-126.51	-122.41	-113.85 -118.41	-108.68	-102.93	-96.96	-91.41	-86,79	-83 33	-80.49	-78.11	-75.43	-71.85	-68 03	-64.09	-59.93	-55.56	-51.17	-46.96	-42.98	-39.23	-35.38	-31.04	-26.65	٦,	<u>₹</u>
•	600.78	590.60	578.68 584.87	551.15 570.58	551.14	541.02	530.13	505.59	491.20	475.15	458.38	441.84	425.71	409 13	390.79	371.98	352.50	334 15	317 41	299.23	280.88	262.54	244.28	225.85	207.73	189.50	170.87	151.65	132.67	FT W	٦ (١
	616.03 620.66	605.46	593.38 599.66	5/5.96 585.29	565.87	555.23	543,64	517.71	502.47	485.47	467.72	450.30	433.52	416.60	398.18	379.41	359.91	341 27	39/ 11	305.53	286.74	267.90	249.13	230.23	211.71	193 14	174.15	154.46	135 00	FT	Vertical
	616.53 621.14	605.98	593.86 600.16	576.35 585.73	566.23	555.62	544.08	518.25	503.08	486.17	468.52	451.20	434 47	117 52	399.00	380.09	360.48	3/1 70	334 63	306.01	287.20	268,36	249.58	230.68	212.13	193.50	174.49	154 79	135 30	Distance FT	$\mathcal{C}$
	102.98 103.04	102.94	102.98 102.96	103.19 103.06	103.26	103.16	102.87	102.69	102.48	102.22	101.94	101.69	101.52	Ţ.	101.64	101.86	102.14	102.10		102.09	102.05	101.95	101.83	101 75	101.69	101 70	101.70	101.50	101 36	Direction Dea	LOSURE
	.69 1.12 .99	5-5-	1.40	1.06 200	1.29	1.0	1.09	1.38	. <del>.</del>	.34	.26	1.25	±	2	.28	1 12	o n i o o	 	ò	.43	- 		A (	2	.71	71	. <del>L</del> 4	77.	07	Severity Deg/100	Dogleg

6591.00 6683.00 6746.00 6810.00	6135.00 6226.00 6318.00 6409.00 6500.00	5679.00 5770.00 5861.00 5953.00 6044.00	5222.00 5314.00 5405.00 5496.00 5587.00	4766.00 4858.00 4949.00 5040.00 5132.00	Measured Depth FT
2.24 2.33 2.20 2.20	1.14 1.14 1.45 1.93 1.83	1.58 1.05 1.01 1.71 1.88	2.46 1.67 .52 .79 1.32	2.50 2.57 2.64 2.46 2.02	Incl Angle Deg
209.73 208.72 213.65 213.65	226.26 217.33 229.86 215.23 206.49	194.84 205.47 208.90 201.17 222.26	123.95 129.53 190.33 195.36 203.49	121.36 113.79 99.34 108.40 110.02	Drift Direction Deg
6533.08 6625.01 6687.96 6751.91	6077.27 6168.25 6260.23 6351.19 6442.14	5621.37 5712.35 5803.33 5895.30 5986.28	5164.50 5256.44 5347.42 5438.41 5529.40	4708.91 4800.82 4891.73 4982.64 5074.57	True Vertical Depth
-175.14 -178.34 -180.47 -182.51	-164.92 -166.27 -167.75 -167.74 -169.74 -172.29	-156.59 -158.55 -160.01 -162.00 -163.78	-148.60 -150.56 -151.81 -152.82 -154.39	-141.81 -143.68 -144.85 -145.80 -146.98	FT N-S
617.34 615.55 614.26 612.90	624.81 623.61 622.17 620.40 618.87	629.21 628.53 627.79 626.90 625.94	627.16 629.83 630.78 630.54 629.96	609.22 612.82 616.75 620.67 624.07	FT-W
641.67 640.79 640.11 639.34	646.19 645.38 644.38 643.20 642.40	648.23 648.09 647.76 647.43 646.97	644.15 647.24 648.49 648.52 648.37	625.04 629.01 633.11 637.15 640.74	Vertical Section FT
641.70 640.86 640.23 639.50	646.21 645.40 644.38 643.20 642.41	648.40 648.22 647.86 647.49 647.01	644.53 647.58 648.79 648.80 648.60	625.50 629.44 633.53 637.57 641.15	C L Distance FT
105.84 106.16 106.37 106.58	104.79 104.93 105.09 105.30 105.56	103.97 104.16 104.30 104.49 104.66	103.33 103.44 103.53 103.62 103.77	103.10 103.20 103.22 103.22 103.25	CLOSURE Direction Deg
.47 .11 .37	.30 .20 .71 .33	.37 .64 .08 .78	.77 .89 1.63 .30	1.17 .37 .72 .48	Dogleg Severity Deg/100

